

RIEL JOSEPH BULAYBULAY

SOFTWARE ENGINEER

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PROFESSIONAL SUMMARY

Software Engineer with 6+ years building and operating production systems across Web3, fintech, and SaaS. Shipped full-stack web applications for startups and established companies, with deep hands-on experience in Linux, server administration, and DevOps from years of daily-driving Arch Linux. Specializes in TypeScript, React, Node.js, Docker, and cloud infrastructure (AWS, GCP), with proven results leading migrations, building CI/CD pipelines, and optimizing system performance.

SKILLS

Programming Languages:	TypeScript, JavaScript, Python, Golang, Lua, Bash, Solidity
Linux, Servers & DevOps:	Linux (Arch), Bash / Shell scripting, Server administration, Nginx, systemd, Self-hosting, Docker, Docker Compose, CI/CD, GitHub Actions, Terraform, AWS, GCP, Fly.io, Serverless
Frontend:	React, Next.js, Tailwind CSS, Shadcn UI, Framer Motion, Vite
Backend & Databases:	Node.js, Express, NestJS, Django, GraphQL, REST APIs, PostgreSQL, MongoDB, DynamoDB, Redis
Blockchain:	Ethereum, Solana, Hyperliquid, Foundry, Hardhat, Viem, Wagmi, Web3.js, Ethers.js, Smart Contracts

PROFESSIONAL EXPERIENCE

Full-stack Software Engineer	Jan, 2026 – Jun, 2026
Cashflowy (Remote)	
- Built and maintained frontend (React/TypeScript) and backend (Django/Python) systems for a financial management platform serving small businesses with transaction tracking, invoicing, bank connectivity, and financial reporting. - Integrated third-party services including Plaid for bank account connectivity and Stripe for payment processing, enabling seamless financial workflows for end users. - Implemented automated background workflows with Celery and Redis for scheduled tasks, bank statement processing, and notification delivery. - Designed type-safe API contracts using Django REST Framework with OpenAPI-generated TypeScript SDKs and React Query hooks, establishing end-to-end type safety across the stack.	

Senior Software Engineer / Blockchain Engineer

Nov, 2024 – Jan, 2026

Soulbound Inc. (Remote)

- Built and maintained both frontend and backend systems for a next-gen Web3 streaming platform: designed UI components, integrated blockchain SDKs, developed smart contracts, and managed node interactions on decentralized infrastructure.
- Optimized core database queries for a B2B financial SaaS platform (Django/React), achieving 40-66% faster query times through bulk-fetching strategies and eliminating expensive UNION queries.
- Redesigned the deployment pipeline: migrated from tar/scp to GCP Artifact Registry, secrets from .env files to GCP Secret Manager, and built GitHub Actions workflows with per-environment triggers, health checks, and automatic rollback.
- Reduced Docker build times by 11x (28 min to 2.5 min) by migrating from pip to uv, and optimized Dockerfiles with multi-stage builds achieving 93% smaller build context and 29% smaller images.
- Migrated API documentation to drf-spectacular, enabling auto-generated type-safe TypeScript SDK with React Query hooks, establishing end-to-end type safety across the full stack.
- Led a team of 3 engineers to upgrade codebases, restructure file organization, and improve coding practices, reducing feature delivery time.

Frontend Engineer

Jun, 2024 – Nov, 2024

Keyring Network (Remote, Contract)

- Streamlined the Rule Builder workflow by refactoring UI components and fixing layout bugs, enabling compliance teams to assemble granular admission policies in fewer steps and reducing policy-creation friction for new clients.
- Elevated user engagement with micro-interactions by implementing lightweight, performant animations that improved perceived responsiveness and reduced drop-off in long, multi-stage form flows.

Blockchain Engineer

Jun, 2024 – Nov, 2024

Jeeters (Remote, Contract)

- Launched a Solana token-tracking Telegram bot serving hundreds of active users, enabling real-time monitoring of token balances, transactions, and profit/loss directly within Telegram.
- Integrated automated trading capabilities, enabling users to execute buy/sell commands directly in Telegram across multiple DEXs and CEXs, reducing manual effort and increasing trading speed.
- Built cross-platform DEX/CEX integrations (Jupiter, Orca, Raydium) and centralized exchanges, providing users with both decentralized and centralized trading options in a single interface.

Software Engineer

Jul, 2023 – Feb, 2024

Token Metrics (Remote)

- Sole developer for an automated crypto asset allocator, owning the product end-to-end from architecture and frontend to backend and deployment.
- Led the migration of the legacy Angular codebase to Next.js, improving application load speed by 3x and significantly enhancing both developer and user experience.
- Established CI/CD from scratch with GitHub Actions for automated deployments, eliminating manual deployment errors and improving website reliability.
- Optimized database models and backend queries, reducing transaction costs and improving row retrieval efficiency.

Blockchain Developer

Jul, 2022 – Jul, 2023

Atlantis World (Remote)

- Built core Web3 integrations for a social metaverse, connecting blockchain protocols with social, gaming, and education features in a 2D browser-based virtual world.
- Integrated multiple Web3 protocols into the platform and refined UI design and functionality to match the team's established architecture and standards.
- Worked across the stack with React, web3.js, ethers.js, Ethereum smart contracts, and Solidity.

Full Stack Software Engineer (Senior)

Jun, 2021 – Jul, 2022

Otterdev (Remote)

- Mentored and supervised 3 junior software engineers, conducting code reviews and pair programming sessions to accelerate their growth.
- Delivered 4 client projects as lead developer, owning end-to-end development from architecture to deployment.
- Built production applications using React, Next.js, NestJS, Prisma, and AWS services (Lambda, DynamoDB, AppSync, Cognito, CodePipeline CI/CD).
- Developed emerging blockchain applications including KYC platforms and ICO smart contracts using Solidity and ethers.js.

Full Stack Software Engineer (Senior)

Nov, 2020 – Feb, 2022

AAHCS (Remote, Contract)

- Architected and built a serverless application using Vue.js (Quasar), Node.js, Express, GraphQL, AWS Lambda, and DynamoDB.
- Designed database schemas aligned with application business patterns, optimizing for query performance and cost efficiency.

Full Stack Software Engineer

Nov, 2019 – Apr, 2021

Dashwerq (Remote)

- Developed and designed features across the full software lifecycle, from requirements definition through deployment, improving business efficiency.
- Delivered performance optimizations that measurably increased application speed, contributing to revenue growth.
- Built real-time features including live updates, notifications, and data export functionality using Python, GraphQL, and Vue.js.
- Managed infrastructure using Docker, nginx, and Redis for hosting and server operations.

Intern Trainee

Jun, 2019 – Aug, 2019

MSU-IIT Robotics Laboratory

- Developed and maintained code for turtlebot3 robots using the Robot Operating System (ROS) with C/C++ and Python.
- Delivered lectures to fellow colleagues introducing them to robotics and ROS fundamentals.

PROJECTS

Open Source Contributions

- Contributed a feature to Viem (wevm/viem), a widely-used TypeScript blockchain library — added value parameter support to the deployContract function with full test coverage. (Merged)
- Contributed bug fixes and documentation improvements to Cloudflare's workers-sdk and cloudflare-docs repositories.

pi-git-worktrees - Parallel AI Agent Sessions

<https://github.com/rielj/pi-git-worktrees>

- A Pi coding agent extension that spawns multiple AI agents in isolated git worktrees, orchestrated from a single tmux session with live status widgets, floating popups, and heartbeat monitoring.
- Built with TypeScript. Features fan-out/wait/gather orchestration, interactive TUI panel, and file-based heartbeat detection for real-time busy/idle state across all agents.

pi-image-preview - Inline Terminal Image Previews

<https://github.com/rielj/pi-image-preview>

- A Pi coding agent extension that renders inline image thumbnails above the editor using the kitty graphics protocol with full tmux support via Unicode placeholder characters.
- Built with TypeScript. Supports paste-to-preview, horizontal gallery layout, auto-cleanup, WASM-based resizing, and screenshot tool integration.

Nyx - Tailwind CSS Formatter & Linter

<https://github.com/rielj/nyx>

- A CLI tool that canonicalizes non-standard Tailwind CSS class names and automatically sorts classes according to Tailwind's official class ordering convention.
- Built with TypeScript, @tailwindcss/oxide, PostCSS, and LightningCSS. Supports 24+ file formats including HTML, JSX, TSX, Vue, Svelte, and more.

ts-sql.nvim - SQL Support for TypeScript in Neovim

<https://github.com/RielJ/ts-sql.nvim>

- A Neovim plugin that adds SQL syntax highlighting and formatting to template strings in TypeScript/JavaScript files using TreeSitter injection queries.
- Built with Lua and TreeSitter. Supports smart placeholder handling for template interpolations, auto-format on save, and multiple SQL dialects.

sqlc-gen-typescript - Bun Plugin for sqlc

<https://github.com/RielJ/sqlc-gen-typescript>

- A WASM-based sqlc plugin that generates fully-typed TypeScript code from SQL queries with Bun-native SQL driver support. Eliminates manual database access code while maintaining strict type safety.
- Supports PostgreSQL, MySQL, and SQLite via multiple drivers (pg, postgres, mysql2, better-sqlite3, bun). Built with TypeScript, Protobuf, esbuild, and Javy.

EDUCATION

Bachelor of Science in Computer Engineering (2022)

Mindanao State University – Iligan Institute of Technology

A.Bonifacio Street, Tibanga High-way Iligan City, Philippines (9200)

CERTIFICATIONS

Impact Hackathon - Dashwerq

2019

- Participated as a developer member of dashwerq in the first Impact2050 Program National Hackathon, and placed on the top 15 of the Impact2050 Hackathon nationals.

Huawei Certification - Routing & Switching

2019

- Certified by Huawei Technologies Co. Ltd. as a Routing & Switching Associate.

ICPep Programming Competition Contender

2018

- City Contender for the regional ICPep programming competition, Place 3rd on the said event.