

KENTARO VADNEY

Full-Stack Software Engineer | Blockchain & AI Systems

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Full-Stack Software Engineer with 2+ years building production web services, blockchain infrastructure, and AI systems. Led backend optimizations reducing page load times 50% and database latency 60% while supporting 5x throughput increases. Deployed blockchain nodes, shipped enterprise MVPs, and co-authored distributed systems research. Seeking roles in ML/AI, blockchain, or distributed systems.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Java, Rust, SQL, Solidity, HTML/CSS

Cloud & DevOps: AWS (EC2, S3, Kendra, CloudFront), Docker, Kubernetes, Terraform, GitHub Actions, CircleCI

Databases: PostgreSQL, MySQL, MongoDB, Redis, Query Optimization, Schema Design

Frameworks & Libraries: React, Node.js, FastAPI, Flask, Express, Django, Angular, Tailwind, PyTorch

APIs & Architecture: RESTful APIs, Microservices, GraphQL, LLM Integration, Message Queues

Tools & Platforms: Git, Jira, pytest, Jest, Dask, Pandas, NumPy

EXPERIENCE

Full Stack Software Engineer • Centigrade — Apr 2025 – Aug 2025 • Santa Clara, CA

- Rewrote critical API services in FastAPI, optimized database schema/indexes, supporting 5x query throughput increase and reducing database latency by 60%
- Redesigned frontend with React and Tailwind CSS, cutting Time-to-Interactive 50% and raising Lighthouse accessibility score from 30 to 90
- Built AWS Kendra AI search prototype with Python indexing pipeline, reducing manual document discovery time by 10+ hours/week
- Established CI/CD patterns with CircleCI/GitHub Actions, shortening release cycle from multi-day to same-day deployments

Founding Full Stack Software Engineer • CarbonSustain — May 2024 – Dec 2024 • Remote

- Architected blockchain-based carbon credit tracking system from prototype to MVP as 2-person founding engineering team lead
- Built Node.js backend with XRPL integration and FastAPI microservices, supporting real-time transaction validation for 3 enterprise pilots
- Integrated Angular/TypeScript frontend with PostgreSQL, implementing RESTful APIs and authentication flows for production
- Designed AWS infrastructure with Terraform (EC2, S3, CloudFront) and CI/CD pipelines enabling zero-downtime releases

R&D Software Engineer • Belden — Jul 2023 – May 2024 • San Jose, CA

- Developed container ingress features and LLM-powered threat detection using Python, Java, REST APIs, and Kubernetes for industrial IoT cybersecurity
- Re-architected Android testing workflow, reducing test execution time 40% and improving code modularity and team productivity
- Re-designed AI models expanding threat detection coverage by 30% against emerging OT/IT attack patterns

Additional Experience: Research & Blockchain Roles (2021-2022)

- UC Berkeley RISE Lab Researcher:** Led 5-person research team investigating consensus protocols; co-authored peer-reviewed paper on Byzantine fault tolerance optimizations
- Berkeley Blockchain Accelerator Product Analyst:** Evaluated 50+ startups for investment (portfolio raised \$650M+); deployed Stellar validator nodes on AWS Kubernetes
- Blockchain Development Intern (Astar Network, OkX):** Built smart contracts in Rust/Solidity, shipped DEX features with React, published developer documentation

EDUCATION

B.A., Computer Science • University of California, Berkeley — Aug 2019 – May 2023

- Regents' and Chancellor's Scholar (top 1% merit scholarship) • UCSB Hackathon 2020 Grand Prize • Co-authored distributed systems research paper