KENTARO VADNEY

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TECHNICAL SKILLS

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

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

Cloud & DevOps: AWS, Docker, Kubernetes, Terraform, Jenkins, GitHub Actions, CircleCI

Databases: PostgreSQL, MySQL, MongoDB

Platforms: Jira, Confluence, Notion, Coda, Zendesk, CursorAI, Windsurf

EDUCATION

University of California, Berkeley
Aug 2019 – May 2023

B.A., Computer Science

🏆 **REGENTS' & CHANCELLOR'S SCHOLAR**

🥇 **UCSB Hackathon 2020 Grand Prize - ML App**

Research Focus Areas:
- Distributed Systems
- AI Labor Market Analysis
- Natural Language Translation

EXPERIENCE

Full Stack Software Engineer @ **Centigrade**   *Apr 2025 – Aug 2025*
- Led development of FastAPI backend services and database migrations, improving query scalability and supporting 100tx/mo
- Redesigned frontend routing and improved UI responsiveness with React.js/Tailwind, reducing page load time by 50% and boosting accessibility scores from 30 to 90
- Created concept AWS Kendra index with Python powering product-wide AI search and summary features
- Drove team workflow efficiency using Jira, Confluence, GitHub PRs, CircleCI, and Amplify

Founding Full Stack Software Engineer @ **CarbonSustain**   *May 2024 – Dec 2024*
- Led architecture and development of blockchain-based data and credit system from prototype to MVP
- Built & deployed Node.js backend with FastAPI integrations and XRPL ledger connections
- Integrated Angular and TypeScript frontend with PostgreSQL data server for scalable user-facing features
- Designed and provisioned AWS infrastructure (EC2, S3, CloudFront, Terraform) to support live production
- Delivered custom client demos leveraging Python scripts and LLM APIs, securing enterprise pilots

R&D Software Engineer @ **Belden**   *Jul 2023 – May 2024*
- Developed container ingress features & LLM tools with Python, Java, REST APIs, and Kubernetes
- Re-defined Android app testing workflow, improving modularity and readability
- Re-designed AI cybersecurity models to expand product's data coverage and strengthen defenses
- Optimized EDA notebooks (Dask, Pycaret, visualization tools) to analyze 200+ GB CSVs

Fellow/Liaison @ **Berkeley Blockchain Accelerator**   *Jan 2021 – Apr 2022*
- Evaluated 50 blockchain startups, several later raising $650M+ in funding
- Researched and published industry and fundraising news to a 3k+ subscriber audience
- Deployed Stellar blockchain nodes via onFinality in AWS Kubernetes using Docker, improving ecosystem reliability

Researcher @ **UC Berkeley RISE Lab**   *Aug 2021 – Dec 2021*
- Led 5-person research team on replicated state machine protocols, delivering published results
- Simulated distributed system traffic (Python, Numpy, Pandas) for performance testing
- Co-authored paper on round-robin consensus with symmetric encryption, contributing to academic literature

Full Stack Intern @ **Astar Network**   *May 2021 – Aug 2021*
- Deployed Rust smart contracts with WASM, Solidity, enabling cross-chain deployment
- Built Discord token generator bot integrated with Polkadot.js, Ethers.js, Web3.js
- Published developer docs in English and Japanese, driving adoption

Frontend Intern @ **OkX**   *Jan 2021 – May 2021*
- Delivered MVP features for decentralized exchange (DEX) using React.js, ChakraUI, Onboard.js
- Secured frontend web app with input sanitation, source limiting, and security testing