

# 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**



### 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

### Product Analyst @ 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