

# 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