

Kian Bradley

github.com/fafrd - kian@wizwar.net

Hello! My name is Kian Bradley. After leaving OpenSea last year, I have been focused on personal projects and learning the Russian language. My core competency is backend software engineering, but I also enjoy exploring frontend and full-stack development.

Education

B.S. in Computer Science and Engineering from the University of California, Merced in 2016

Experience

Software Engineer, OpenSea, 2021 - 2022

- Developed backend API powering OpenSea NFT platform
- Migrated database access layer from Django ORM to a custom solution
- Rewrote core features to rely on ScyllaDB, a scalable noSQL database
- Architected plan to replace an inefficient search API with an Elasticsearch-backed alternative
- Diagnosed EVM execution failures and improved logging/metrics for future analysis
- Joined on-call rotation and responded to operational events

Software Engineer, Amazon Web Services, 2019 - 2021

- Developed and maintained a distributed control plane for custom network devices
- Re-architected legacy control plane services to remove scaling bottlenecks with zero downtime
- Became familiar with various AWS services: DynamoDB, Cloudwatch, Cloudformation, Lambda, CloudHSM
- Wrote and presented roadmap documents to guide future team priorities
- Advocated for operational excellence; wrote multiple Correction-of-Errors reports to root-cause and address past operational failures
- Joined on-call rotation and responded to operational events, coordinating with multiple teams worldwide
- Designed and implemented a continuous testing service
- Designed and implemented a service to alert on malicious use of customer-facing APIs.

Software Engineer, Fernetix, 2016 - 2019

- Worked within a small team to create a C#/ .NET client for an encryption key management server
- Architected core components of the program (message routing, protocol translation, cloud integration)
- Gained knowledge of modern cryptographic concepts such as certificate/key formats, TLS handshake, and PKI

Independent Work

- **Aquarium:** AI-controlled Docker containers github.com/fafrd/aquarium
- **Token Gallery:** Independent NFT marketplace token.gallery
- **Curio Snowglobes:** Web3 smart contract frontend github.com/curiocards/snowglobe-frontend
- **Curio Cards Subgraph:** GraphQL blockchain index github.com/fafrd/curio-cards-subgraph

Awards

Won first place in the 'Cryptocurrency Capture the Flag (C3TF)' competition at BSidesNoVA
blog.fernetix.com/fernetix-developer-takes-top-prize-at-cybersecurity-conference