

## Professional Experience

### Aiodin Tech | Software Engineer (Full Stack)

September 2020 – Current

- Led a comprehensive UI redesign in **Angular** and **Next.js** app, resulting in a **20%** increase in user retention.
- Optimized high-traffic **Laravel** applications by refactoring SQL queries, leading to a **20%** improvement in load times.
- Spearheaded the introduction of **Datadog** for log management and **Sentry** for error tracking, reducing Mean Time to Resolution (MTTR) for bugs by **30%**, improving overall system reliability.
- Pioneered the implementation of a **Docker-based workflow**, cutting environment setup times for new projects by **50%**, accelerating project delivery timelines.
- Leveraged **Redis** to streamline database operations, reducing server load by **15%** and API response time by **25%**.
- Refactored critical code sections using **Laravel Queue**, decouple components and convert synchronous processes to asynchronous, enabling the system to handle **20+ concurrent tasks** and improving overall performance by **25%**.
- Architected the transition to a **microservices-based** system, improving modularity and scalability of core features.
- Created and maintained a comprehensive technical documentation, reducing project delivery times by **10%** and improving team efficiency.

### Thought quarter | Software Engineer Intern (Full Stack)

June 2020 - August 2020

- Developed and enforced front-end coding standards across projects using **React** and **Next.js**, leading to a **20%** improvement in website performance, enhanced accessibility for all users, and optimized CSS for faster load times.
- Optimized **Nest.js** applications by enhancing database query and indexing strategies, reducing page load times by **50%** and server load by **30%**.
- Implemented advanced filtering options to refine search results, increasing user engagement by **20%**.
- Developed and maintained web applications using **Python** and **Django**, driving a **30% reduction** in page load times and contributing to a **25% increase** in user retention.
- Tested and debugged application code, enhancing stability and reducing website errors by **15%**.

## Relevant Experience/Projects

### Decentralized Content-Addressable File Storage System

- Developed a fully decentralized, distributed file storage system using **Go**, optimized for handling and streaming large files efficiently by applying advanced distributed systems concepts like data replication and p2p networking.
- Enhanced performance by optimizing data transmission and file sharing through **low-level programming**, fine-tuning **network protocols**, and implementing efficient data compression and transfer strategies to improve speed.

### Interpreter for custom scripting language

- Created an interpreter for **Kai**, a custom scripting language, written in **Java**.
- **Kai** supports rich syntax, **dynamic typing**, **garbage collection**, **first-class functions**, **closures**, **classes**, and **inheritance**, delivering a feature-rich and efficient language for various applications.

### E-commerce store - [Demo](#)

- Built an e-commerce platform for custom phone cases using **React**, **Next.js**, **Tailwinds**, **Prisma**, and **PostgreSQL**, integrating secure payment processing with **Stripe** to ensure smooth and reliable transaction handling.

### Ranker - [Demo](#)

- Developed a real-time ranked-choice voting app for group decisions (e.g., movies or dining) using **React**, **NestJS**, **Socket.io**, and **Redis**, enabling real-time updates and seamless group decision-making with a robust back-end.

### SurveyFlow - [Demo](#)

- Designed and implemented a survey creation and response collection app using **React** UI and **Laravel** backend, streamlining data collection and response management to enhance user experience and operational efficiency.

## Skills/Interests/Miscellaneous

**Languages:** HTML, CSS, JavaScript, TypeScript, C, C++, Python, Java, Go, PHP, SQL**Technologies:** React, Angular, Laravel, Nest.js, Bash, Git, MySQL, Docker, Vite, Firebase, TailwindCSS, Bootstrap, Node.js, Spring, Linux, GraphQL, Apollo, Google Cloud**Certifications:** [AWS Certified Solutions Architect – Associate](#)**Concepts:** Devops, CI/CD, Agile, Test-driven development, Unit Test, Integration Test**Interests:** Outdoor activities, TV show, Food, Coffee, Gaming

## Education

### University of Nottingham - BSc (Hons) Computer Science

Sept 2019 - Sept 2022

- **Courses:** Compilers, Artificial Intelligence, Information visualization with R, Computer Security, Operating Systems, Image Processing, Data Structure and Algorithm, Object-oriented programming