

Kavin Suraj Jeyasankar

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Education

Bachelor of Science	Colorado School of Mines	Golden, CO, USA	December, 2024
• Major: Computer Science	Focus Area: Computer Engineering		GPA: 3.518

Work Experience

Notepod - notepod.co | *Founder / Software Engineer* Oct 2024 – Current | Denver, CO

- Engineered a solution 0-1 to produce higher quality technical documentation with a modern and secure **NextJS** frontend paired with a **custom trained AI model**, utilizing **AWS EC2, S3, and Vercel** for cloud features
- Developed an end-to-end integration with Deepseek AI and **OpenAI** models for intelligent code search and documentation, **increasing token window from 8.1K to 128K tokens**
- Designed a caching system for code embeddings using SQLite to improve performance and reduce computation overhead, bringing response times **from 30+ seconds to 6 seconds**
- Implemented concurrent file processing using ThreadPoolExecutor **reducing processing time by 65%**

Qualcomm | *Software Engineering Intern* Aug 2024 – Dec 2024 | Boulder, CO

- Devised and implemented a concurrent solution for data collection on LTE and non-5G networks improving runtimes from **5 – 6 hours down to 5 – 10 minutes**
- Improved error-prone data collection infrastructure with Python Fast API, REST API development, MySQL, Power BI, and packaging with Linux RPM, **protecting 20,000+ data points per day**
- Enhanced database connection limit by reducing connections from **5000 connections to 1 connection** by implementing a caching layer with **Redis** to temporarily store collected data

Charles Schwab | *Software Engineering Intern* June 2024 – Aug 2024 | Austin, TX

- Led the design of a web application to choose the proper messaging vendor for Charles Schwab applications with **Angular, Kafka, C# / .NET, and MongoDB** improving the user experience of **34.8+ million users**
- Integrated a **RESTful API** for the digital messaging platform, ensuring seamless communication with external vendors and assisting with client experience, **saving up to 50K per year and hidden costs**

The Center for Hydrate Research | *Software Engineering Intern* Aug 2023 – May 2024 | Golden, CO

- Modernized and designed one-of-a-kind software used to predict the stability of hydrates in nature using the latest technologies available with **C++ version 20**
- Optimized existing software through the implementation of C++ 20 features like lambda functions, transforms, and ranges to bring runtimes from **60+ minutes on older versions down to 4 seconds**

Projects

AI Resume Analyzer – Full-stack [DEMO](#)

- Designed an application to help clients land more interviews by matching their skills to a chosen job listing by highlighting missing skills, **increasing interview rates by up to 35%**
- Created a modern frontend with **React (JavaScript / Typescript)** with a **Flask (Python)** API writing to a **Google Firebase No-SQL Database** for a seamless user experience, **impacting 8+ users**

Social Media Application – Full-stack [LINK](#)

- Developed a full-scale social media application with **NextJS** and end-to-end with content created and operated entirely by artificial intelligence (**OpenAI API**) and containerized with **Docker**
- Utilized **Google Cloud Platform (GCP)** services (**Cloud Run, Pub/Sub, Buckets, Cloud Functions, Artifact Registry**) for creating secure and scalable architecture, storage, and deployment for **5+ monthly users**

Skills

C/C++ | OpenAI | Python | SQL | React | Typescript | Git | Mongo | MySQL | ML | Java | Docker | Kubernetes