

# Kavin Suraj Jeyasankar

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## Education

<b>Bachelor of Science</b>	<b>Colorado School of Mines</b>	<b>Golden, CO, USA</b>	<b>08/2021-12/2024</b>
• Major: Computer Science      Focus Area: Computer Engineering		GPA: 3.52	

## Work Experience

**Qualcomm:** *Software Engineering Intern* **08/2024 – Current**

- Designed 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**.
- Modernized Qualcomm's previously error prone data collections and analytics infrastructure with **Python Fast API, REST API development, SQL Alchemy, Power BI and packaging with Linux RPM**.
- Containerized with **Docker** and orchestrated with **Kubernetes**, resulting in a scalable and secure application.
- Utilized Jira to manage tasks, track progress, and facilitate effective communication, ensuring alignment with **Agile** methodologies for iterative development, timely updates, and quick resolution of issues.

**Charles Schwab:** *Software Engineering Intern* **06/2024 – 08/2024**

- Led the design of a web application to efficiently choose the proper vendor for notifications for Charles Schwab applications with **Angular, Kafka, C# / .NET, and MongoDB** improving user experience of 34.8+ million users.
- Developed and integrated a **RESTful API** for the digital messaging platform, ensuring seamless communication with external vendors and assisting with client experience and saving 100K+ dollars yearly.
- Actively contributed to the execution of SDLC best practices by participating in daily scrum meetings, conducting thorough code reviews, and promoting continuous integration and delivery processes.

**The Center for Hydrate Research:** *Software Engineering Intern* **08/2023 – 05/2024**

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

**FTC Robotics:** *Software Engineering Mentor* **09/2019 – 04/2022**

- Led the team to 2<sup>nd</sup> place in the state championship by teaching pure pursuit and **Java programming principles**.
- Implemented odometry to significantly improve position accuracy with variation per trial reducing from an average of **11.8 inches of variation to 3.4 inches** of variation, an improvement of 71%.

## Projects

**Shuffle - Social Media Application (~21,000 lines) – Full-stack**

- Developed a full-scale social media application 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 10+ monthly users.
- Designed and integrated a **NextJS** frontend responsible for responsive user interfaces, **Google Firebase** for real-time data handling and secure user authentication, and **Python** for server-side logic and **API development**.

**AI Board Game (~7,000 lines) - Java**

- Designed and developed Clue board game (**Java/Eclipse**) with clean and complete UI as well as clean and modular code with the implementation of **OOP principles and SOLID programming principles**.
- Created artificially intelligent computer players to make smart decisions derived from human players movement, accusations, and suggestions and ensured functionality with Junit testing.

## Skills

- C++ | Java | Python | C | C# | SQL | HTML | JS | CSS | Unit testing | JFrame | Junit | OOP | Git | Fast API
- PostgreSQL | Google Cloud Platform (GCP) | Firebase | Linux | Shell Script | Flask | TypeScript | Kafka
- SQLAlchemy | openai API | Bootstrap | React.js | .NET | Next.js | Express | MongoDB | Angular | Agile