

JUHUN PARK

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TECHNICAL SKILLS

- **Languages:** Python, JS/TS, Go, Java, SQL
- **Libraries & Frameworks:** React.js, Flask, SvelteKit, Django, Tailwind, Pandas, Numpy, PostgreSQL, Bootstrap
- **Tools:** Git, Linux, RabbitMQ, Algolia, Docker, Firebase, GCP, MediaPipe

EDUCATION

George Mason University

Expected May 2027

BS Computer Science

GPA: 3.9

Relevant Courses: Problem Solving & Programming, Object Oriented Programming, Data Structures & Algorithms

EXPERIENCE

copium.dev

Jan 2025 - Present

Founder

Remote

- Built an internship application management platform with **SvelteKit**, **Go** and **Firestore**, achieving **99.9% uptime** and **sub-100ms** search latency for **100+** concurrent users, with **3,000+** applications.
- Scaled search engine indexes to 10k concurrent operations with **Cloud Pub/Sub**, reducing search latency by **30%**.
- Delivered an **80%** reduction in query latency for **BigQuery** data analytics by leveraging CQRS pattern architecture, **50%** reduction in data transfer costs by implementing server-side paginated Algolia searches.
- Implemented compensating transactions for consistency across data stores with a **99.9%** success rate.

InsightLegi

Jan 2025 - Mar 2025

Software Engineer Intern

Fairfax, VA

- Created data visualization dashboard for 15 states, **30+ charts** using **Chart.js** and **React-Query** while maintaining **sub-150ms** data fetch time, resulting in **20%** reduced operating costs by improving computing resource efficiency.
- Developed a web application using **React** and **Tailwind** to promote the hackathon, led to 100 (+**42%**) registrations.
- Implemented a new registration-processing pipeline in **Go**, integrating the **Google Workspace API**, reducing registration processing time by **70%** compared to the previous flow.

Eduverse

Dec 2024 - Feb 2025

Software Engineer Intern

Remote

- Implemented JWT-based authentication and user profiles in **Django**, reducing redirect response time by **50%**, to 150ms.
- Rebuilt frontend using **React** and **Tailwind**, resulting in **57%** more efficient load time, **35%** reduction in API latency.

PROJECTS

Calple | [GitHub](#) | calple.date

Next.js, Flask, Tailwind, Algolia, Docker, GCP, Firestore

- Developed a relationship management platform with Next.js, Firestore, with features of shared calendars, date ideas.
- Containerized deployment with Docker and GCP Cloud Run, maintaining 99.9% uptime.
- Achieved sub-150ms response times for calendar and note operations.

Project Verstappen | [GitHub](#)

Python, Shared Memory API, OpenCV, AC/acsys module

- Engineered a real-time telemetry data analysis solution for sim- racers, optimizing data processing to reduce server costs by **30%** through efficient data compression and selective real-time telemetry updates.
- Utilized OpenCV to develop, implement image processing pipelines for accurate track line extraction and lane detection.