JUHUN PARK

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TECHNICAL SKILLS

- **Programming Languages:** Python, JS/TS, Go, Java, SQL
- **Full-stack Development:** React.js, Flask, Bootstrap, Django, Tailwind, Pandas, Numpy, PostgreSQL, SvelteKit
- **Technologies:** Git, Linux, RabbitMQ, Algolia, Docker, Firebase, GCP, MediaPipe

EDUCATION

George Mason University — Fairfax, VA
BS Computer Science — Expected May 2027

Northern Virginia Community College — Annandale, VA
AS Computer Science, GPA: 3.9; Dean's List '23, '24; Presidential Scholar '24 — Expected May 2025

Relevant Courses: Problem Solving & Programming, Object Oriented Programming, Data Structures & Algorithms, Calculus I/II/III

EXPERIENCE

copium.dev — January 2025 – Present
Founding Engineer — 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** and **Go** consumer, 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 — January 2025 – March 2025
Software Engineer Intern — Fairfax, VA

- Created data visualization dashboards for 15+ states, **30+ charts** using **Chart.js** and **React-Query** while maintaining **sub-500ms** load time, resulting in **30%** increase in conversion rate, **20%** reduced operating costs by improving computing resource efficiency.
- Developed a web application using **React** and **Bootstrap** to promote InsightLegi Hackathon, implemented **Google Workspace API** using **Go** to handle user registration, reducing processing time by **39%**, accommodating to **40%** increased registration.

Eduverse — December 2024 – Feburary 2025
Software Engineer Intern — Remote

- Streamlined user auth with **JWT**, user model with profile metadata using **Django**, reducing data response time for redirect by **40%**.
- Created search endpoint using **Django ORM**, **PostgreSQL** to query profiles and posts with filters, optimized request to endpoint efficiency by **50%**, reducing search query response time to **sub-100ms**.
- Redesigned frontend using **React** and **Tailwind**, resulting in **57%** more efficient page load time, **35%** reduction in API fetch time.
- Tested **50+** API endpoint using Postman, achieved **98% test coverage** by validating responses across **500+ test cases**.

Himedia Academy — January 2023 – April 2023
Software Engineer Apprenticeship — Seoul, South Korea

- Built 3 web applications adhering to SDLC as a full-time OJT, gained experience in Java, JS, Bootstrap, Oracle DBMS development.
- Improved scalability, **25%** faster backend response times by implementing backend features using Object-Oriented Programming.

PROJECTS

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.
- Enhanced UI/UX to make complex telemetry more approachable, increasing user engagement by **70%** through intuitive visualizations and streamlined data presentation.
- Utilized OpenCV to develop, implement advanced image processing pipelines for accurate track line extraction and lane detection.

ftrace | GitHub
Python, Shared Memory API, acsys module, Flask, React, Tailwind, FastF1/OpenF1 API, Docker, GCP

- Architected a robust backend using **Flask** to fetch, filter data from the OpenF1 and FastF1 API, for **100+** data tables and graphs.
- Designed and developed an intuitive and user-friendly interface and interactive frontend using **React** and **Tailwind**, providing users with updated information of driver/constructor standings and comprehensive grand prix statistics.
- Deployed a production-ready backend API with **99.9% uptime** on Google Cloud Run utilizing Docker for containerization and leveraged Firebase for secure and **30%** more cost efficient hosting of the React frontend compared to previous deployment.