

# JUHUN PARK

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## TECHNICAL SKILLS

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

## EDUCATION

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### George Mason University

BS Computer Science

Fairfax, VA

Expected May 2027

### Northern Virginia Community College

AS Computer Science, GPA: 3.9; Dean's List '23, '24; Presidential Scholar '24

Annandale, VA

Expected May 2025

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

## EXPERIENCE

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### Copium | [GitHub](#) | [copium.dev](https://copium.dev)

Founding Engineer

January 2025 – Present

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

Software Engineer Intern

January 2025 – March 2025

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

Software Engineer Intern

December 2024 – February 2025

Remote

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

### Himedia Academy

Software Engineer Apprenticeship

January 2023 – April 2023

Seoul, South Korea

- Built 3 web applications adhering to SDLC as a full-time OJT, gained experience in Java, JS, Bootstrap, Oracle DBMS development.

## PROJECTS

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### 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 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.