

# 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, Bootstrap, Django, Tailwind, Pandas, Numpy, PostgreSQL, SvelteKit
- **Technologies:** Git, Linux, RabbitMQ, Algolia, Docker, Firebase, GCP, MediaPipe

## EDUCATION

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### George Mason University

BS Computer Science, ADVANCE Program

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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### InsightLegi

Software Engineer Intern

January 2024 – Present

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 through improved resource efficiency.
- Developed a web application using **React** and **Bootstrap** to promote InsightLegi DataStorm 2025, implemented **Google Workspace API** using **Go** to handle user registration, reducing processing time by **39%**, accommodating to **40%** increased registration.

### Eduverse

Software Engineer Intern

December 2024 – February 2025

Remote

- Streamlined user auth with **JWT**, developed user model with profile metadata using **Django**, reducing data response time 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 by **20%**.
- Redesigned frontend using **React** and **Bootstrap**, resulting in **57%** reduction in 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

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.
- Improved scalability and **25%** faster response times from unit testing and debugging by implementing backend features utilizing Object-Oriented Programming(OOP).

## PROJECTS

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### copium | [GitHub](#)

Python, Go, SvelteKit, Tailwind, RabbitMQ, Algolia, Docker, Google Cloud SQL

- Built a **SvelteKit** tech internship management platform for 350 users that handles live postings and user data with Google Cloud SQL while maintaining **99.9% uptime**, leveraging server-side pagination to decrease data transfer costs by **50%**.
- Scaled a distributed search and indexing pipeline to **10,000** concurrent index operations and **sub-100ms** search latency using RabbitMQ and Go consumer with goroutine worker pools on Google Compute Engine.
- Delivered **95%** data freshness for internship searches with a scheduled **Python** job-posting scraper for Algolia indexing, with **30%** reduced operating costs from optimized execution timing to run only when needed, reduced computing resources.

### 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.

### fttrace | [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.

## EXTRACURRICULAR ACTIVITIES

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### CodePath Technical Interview Prep Course - TIP102 | [Certificate](#)

May 2024 – August 2024

- Improved problem-solving skills of **data structures** and algorithms of heaps, trees, linked lists and hashmap through **60+** problems.
- Enhanced communication and analytical thinking skills by collaborating with **5 team members** from various cultural backgrounds.