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, ADVANCE Program — *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

InsightLegi DataStorm — January 2024 – Present
Software Engineer Intern — *Fairfax, VA*

- 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%**, maintaining **99% uptime**.
- Created data visualization dashboards for 15+ states as a team of 3, **30+ charts** using **Chart.js** and **React-Query** while maintaining **sub-500ms** load time, resulting in **30%** increase in user engagement.

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

- Created search endpoint using **Django ORM**, **PostgreSQL** to query profiles and posts with filters for names, skills and post types, 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.
- Collaborated as a team of 5 on API testing using Postman and cURL, achieved **98% accuracy** for profile and post-related features.

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

- Built web applications as full-time OJT using Git, HTML/CSS, JavaScript, Bootstrap and Oracle DBMS, aquired SDLC knowledge.
- Implemented backend features utilizing Object-oriented programming, data structures and algorithms, unit testing and debugging.

PROJECTS

copium | GitHub — 2024
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% 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.

Project Verstappen | GitHub — 2024
Python, Shared Memory API, OpenCV, AC/acsys module

- Engineered a real-time telemetry data analysis solution for sim racers with reduced costs by **30%**, increased user ingagement with telemetry data by **70%** by providing more approchable UI/UX for information with steep learning curve.
- Utilized OpenCV to develop, implement advanced image processing pipelines for accurate track line extraction and lane detection.

ftrace | GitHub — 2024
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% 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

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.