JUHUN PARK

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TECHNICAL SKILLS

- **Programming Languages:** Python, Java, SQL, JavaScript
- **Frameworks:** React.js, Flask, Bootstrap, Django, Pandas, Numpy, PostgreSQL, MediaPipe
- **Technologies:** Git, Linux, Docker, Firebase, GCP

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

Eduverse — December 2024 – Present
Full-stack Developer — Remote

- Implemented search, post features and optimized **React** integration efficiency by **50%**, reduced search query response time by **20%**.
- Developed search endpoint using **Django ORM**, **PostgreSQL** to query profiles and posts with filters for names, skills, post types.
- Redesigned the frontend using **React** and **Bootstrap**, resulting in a **50%** reduction in page load time, **30%** api fetch time.
- Collaborated as a team of 4 on API testing using **Postman** and **cURL**, profile post-related functionality achieved **98% accuracy**.
- Implemented an ML-based recommendation algorithm using **Python** and **Django** suggesting user connections, personalized posts.

Himedia Academy — January 2023 – April 2023
Full-stack Developer Apprenticeship — Seoul, South Korea

- Developed skills in web development techniques and **REST API** using **Bootstrap**, **HTML/CSS**, **JavaScript**, and **Oracle DBMS**.
- Acquired backend development skills; object-oriented programming, data structures and algorithms, unit testing, and debugging.

Science Research Program, Gimpo Highschool — March 2021 – November 2021
Student Researcher — Gimpo, South Korea

- Led a research project, developed and tested a motion detection application using **Numpy**, **OpenCV**, **PyAutoGUI** and **MediaPipe**.
- Increased motion-controlled pointer accuracy by **25%** through optimizating **MediaPipe** and **OpenCV** code by **20%**.
- Authored a scientific research paper detailing the project methodology, test results, and implications for future research plans.

PROJECTS

Project Verstappen | GitHub | Python, Shared Memory API, OpenCV, AC/acsys module — 2025

- Integrated the **Assetto Corsa Shared Memory API** and **AC/acsys module** for real-time session telemetry, vehicle data for analysis.
- Utilized preprocessing pipelines using **OpenCV** to extract track lines for lane detection.

Formula One Statistics | GitHub | Flask, React, OpenF1 API, FastF1 API, Firebase, Docker, Google Cloud Run — 2025

- Implemented backend API using **Flask** to fetch, filter, store, update data from OpenF1 API and FastF1 API, with data tables, graphs.
- Developed frontend interface with **React** for users to navigate through updated driver/constructor standings and grand prix statistics.
- Deployed the backend API on **Google Cloud Run** using **Docker** for containerization, and **Firebase** for react frontend.

EXTRACURRICULAR ACTIVITIES

Web Developer Volunteer, InsightLegi DataStorm '25 | GitHub | React, Bootstrap, Firebase — January 2025

- Developed a static website using **React** and **Bootstrap** to promote Hackathon 2025, including event details and registration process.
- Deployed the project on **Firebase Hosting**, enabling fast and scalable access.

PatriotHacks '24 | GitHub | React, Github Pages — October 2024

- Participated in a 36-hour hackathon event, collaborated with 3 team members to develop a **React** web application that provides information about government spending of tax revenue on incarceration, and solutions to reduce spending on prison facilities.

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.