

# JUHUN PARK

202-924-4546 | [juhunpark32@gmail.com](mailto:juhunpark32@gmail.com) | [juhun-park.web.app](http://juhun-park.web.app) | [LinkedIn](#) | [GitHub](#)

## TECHNICAL SKILLS

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

## EDUCATION

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**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

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

- Implemented search, post features, optimized React integration efficiency by **50%**, reducing search query response time by **20%**.
- Developed search endpoint using Django ORM, PostgreSQL to query profiles and posts with filters for names, skills, and post types.
- Redesigned the frontend using React and Bootstrap, resulting in **50%** reduction in page load time, **30%** decrease 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.
- Implemented an ML-based recommendation algorithm using Python and Django to suggest relevant user connections and posts.

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

- Mastered core web development technologies and REST API development using HTML/CSS, JavaScript, Bootstrap, Oracle DBMS.
- Acquired backend development skills of Object-oriented programming, data structures and algorithms, unit testing, 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 utilizing Numpy, OpenCV, PyAutoGUI, and MediaPipe.
- Improved application accuracy of the motion-controlled pointer by **25%** through optimization of MediaPipe and OpenCV code, resulting in a **20%** performance enhancement.
- Demonstrated strong research and communication skills, authored comprehensive scientific research paper documenting the project methodology, test results, and potential implications for future research endeavors.

## PROJECTS

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**Project Verstappen** — [GitHub](#) — Python, Shared Memory API, OpenCV, AC/acsys module 2024

- Developed a real-time telemetry and data analysis system: Successfully integrated the Assetto Corsa Shared Memory API and AC/acsys module to extract real-time session telemetry and vehicle data for in-depth analysis.
- Utilized OpenCV to develop, implement advanced image processing pipelines for accurate track line extraction and lane detection.

**FO Statistics** — [GitHub](#) — Flask, React, Tailwind CSS, OpenF1 API, FastF1 API, Firebase, Docker, GCP 2024

- Built a comprehensive and scalable data platform: Developed a robust backend API using Flask to efficiently fetch, filter, store, and update data from the OpenF1 and FastF1 APIs, enabling the creation of dynamic data tables and informative graphs.
- Created an intuitive and user-friendly interface: Designed and developed a highly interactive frontend using React and Tailwind CSS, providing users with seamless navigation through updated driver/constructor standings and comprehensive grand prix statistics.
- Successfully deployed a production-ready backend API on Google Cloud Run utilizing Docker for containerization and leveraged Firebase for secure and efficient hosting of the React frontend.

## EXTRACURRICULAR ACTIVITIES

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**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.