JUHUN PARK

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- **Relevant Links:** linkedin.com/in/juhun-park | github.com/juhun32
- **Programming Languages:** Python, Java, SQL, HTML, CSS, JavaScript
- **Frameworks:** React, Flask, Django, Tensorflow, Pandas, Numpy, PostgreSQL, MediaPipe
- **Technologies:** Git, Linux, Anaconda3, VS Code, LaTeX, Eclipse, MS Office

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

21Cen. English & Math Academy — July 2024 – August 2024
English Instructor — *Incheon, South Korea*

- Improvd 14 high school students' grades by average 30%, significantly improved understanding of English concepts and structures.
- Saved 20% of class time by developing 10 custom lesson plans, addressing the specific needs and objectives of all 14 students.

Himedia Academy — January 2023 – April 2023
Java Backend Developer Apprenticeship — *Seoul, South Korea*

- 40hr/week full-time backend development training consisted of 10 apprentices, on Java application and practical workspace training.
- Developed foundational skills in web development techniques using Bootstrap, HTML/CSS, JavaScript, and Oracle DBMS.
- Focused on backend development skills; object-oriented programming, data structures and algorithms, unit testing, and debugging.
- Led a team and improved workflow efficiency by reducing 30% of development time by utilizing Git, Github and Notion.

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

- Led a student research project, which developed and tested a motion detection application using PyAutoGUI and MediaPipe.
- Authored a scientific research paper detailing the project methodology, test results, and implications for future research plans.

PROJECTS

Project Verstappen | github.com/juhun32/project-verstappen — 2024

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

Formula 1 Championship Statistics | github.com/juhun32/f1-statistics — 2024

- Utilized: Python, Flask, React, PostgreSQL, OpenF1 API, Firebase, Google Cloud Run
- Designed a comprehensive database schema using Python and PostgreSQL to store championship points allocations data per drivers.
- Implemented backend API using Flask to fetch, filter, store, update data from OpenF1 API, with data tables and interactive graphs.
- Developed frontend interface with React for users to navigate through updated driver/constructor standings and grand prix statistics.

Web iOS Calculator | github.com/juhun32/ios-calculator — 2024

- Utilized: HTML, CSS, JavaScript, Github Pages
- Developed a functional calculator that mimics iOS 13 calculator design and functionality, with 1:1 scale ratio and same functionality.

EXTRACURRICULAR ACTIVITIES

InsightLegi DataStorm 2024 Volunteer — November 2024

- Managed logistics, participant data and provided technical support for participants and mentors for a 48 hour hackathon event.

PatriotHacks 2024 Participant | github.com/juhun32/Prison-Break — 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* — 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.

President of Software Developer Student Club, Gimpo Highschool — August 2020 – March 2022

- Led 36 club members, supported their projects and academic success, recieved 100% positive feedback from members and mentors.
- Organized two successful project demonstration event, coordinated logistics, presentations, and attendee engagement.
- Invited a published author in AI for a Q&A, facilitated understanding of AI concepts and inspired a new AI application project.