

Avi Gupta

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Github: <https://github.com/racecrafttr>
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For a more detailed version of this resume, visit <https://racecrafttr.github.io/>

EDUCATION

Bachelor of Science, Computer Science

Expected Graduation: May 2028

University of Maryland - College Park, MD

- Minor in Robotics and Autonomous Systems
- **Relevant coursework:** Object Oriented Programming II, AP Computer Science, Calc II

SKILLS

Java/Spring Boot (7 years), Go (4 years), Dart/Flutter (4 years), Python (4 years), Google Cloud Platform (GCP) (3 years), Kotlin (2 years), Javascript (1 year), LaTeX (1 year), VSCode (3 years), IntelliJ (7 years), GitHub (5 years), Xcode (2 years), Swift/SwiftUI (2 years), Google Docs (7 years), Processing(.pde) (8 years), Neural Networks (1 year), Generative AI (Gemini, ChatGPT) (1 year)

WORK EXPERIENCE

Intern, Smartbeej Robotics (<https://www.smartbeej.com/>)

May 2023 - August 2023

- Created system to automate bootstrapping IOT microcomputers to manage modular indoor farms
- Migrated on-farm software and data to Amazon Web Services using **Python**
- Calibrated sensors for accurate data measurement, and created algorithms for signal interpretation

PERSONAL PROJECTS

Gradzilla (<https://gradzilla.app>)

May 2024 - Present

- Built and deployed a web application that uses **Generative AI** and **RAG** to ease college searching
- **Flutter** frontend, **Spring** and **Flask** backend
- **GCP** for storage (**Datastore**, **Firestore**, **Cloud Storage**), authentication (**Firebase Auth**), Generative AI (**Gemini**, **Vertex AI**), and Deployment (**Cloud Run**, **Load balancer**)

XINF (<https://xinf.dev>)

May 2022 - Present

- A REST api to help app writers conveniently get common pieces of information.
- Written in **Go**, deployed on **Cloud Run**, using **BigQuery** for analytics, **Looker** dashboard.
- Used by over 6,000 developers around the world.

OTHER EXPERIENCE

Teacher, Youth Coding Foundation

May 2022 - June 2023

- Taught middle schoolers **Java** and **Python**
- Developed curriculum and presentation material
- Managed emails from students and parents

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Leader, High School Chess Club

September 2020 - June 2024

- Organized tournaments with cash prizes
- Handled all administrative tasks like signups, running meetings, announcements, etc.

Participant, Mega Hackathon

April 2022

- 48 hour hackathon in which participants must design/write an app to focus on one of the UN's 19 sustainability goals
- Wrote a project with teammates that converted lectures into notes using **GCP**
- Won best high school project overall

AWARDS

- ACSL Finalist: reached the final round of competition in the American Computer Science League
- Dr. E. R. Oertell Award, Rutgers Preparatory School: high school award given to a senior with superior achievement in CS