PRANAY JOSHI

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EDUCATION

The University of Alabama **Tuscaloosa, Alabama**

B.S. in Computer Science, Minor in Robotics *May 2027*

- **GPA:** 3.96/4.00, 2x *President's List, University Honors Scholar, Emerging Scholar*
- **Achievements:** Google Summer of Code (GSOC), ACM ICPC finalist, UGAHacks winner, Google Code-in winner
- **Related Coursework:** Data Structures & Algorithms, Software Design and Engineering, Artificial Intelligence, Object-Oriented Programming, Probability & Statistics, Reinforcement Learning, Brain Computer Interface

EXPERIENCE

Shipt **Birmingham, Alabama**

Backend Engineer Intern, Members Payment Team *June 2025 - August 2025 (Upcoming)*

- Will develop and maintain backend services using Golang to support the Members Payment infrastructure.

Center for Advanced Public Safety **Tuscaloosa, Alabama**

Backend Developer *August 2024 – Present*

- Build an Automation Pipeline tool using Python for ArcGIS users to streamline the process of physically extracting and visualizing CAD objects as feature classes.
- Leverage Golang's concurrency with Next.js for development of web-based statistics platform for visualizing different relationships between E-crash data from all 67 counties of Alabama.
- Build framework using Docker and company's server to perform instant queries on department's SQL database, to build multiple features for over 170+ divisions.

Google Summer of Code (Postman) **Remote**

Software Developer (Open Source) *May 2024 – August 2024*

- Developed a CLI Source Generator for Corvus.JsonSchema, by integrating Corvus APIs to automatically generate and add Schema code to user's project for compilation.
- Leveraged Postman and JSON Schema for data modeling, to generate code adhering to standardized data structures.

Human Technology and Interaction Lab, The University of Alabama **Tuscaloosa, Alabama**

Research Assistant *Jan 2024 – Present*

- Develop a Human-Computer Interaction(HCI) platform powered with AI similar to Google Teachable Machine for EEG/EMG devices, which collects and trains on live data and detects movements and emotions in real time.
- Co-authored and published research paper on EEG and EMG device applications for engaging K-12 students with physiological computing and robotics to CHI 2025 Japan, the most prestigious research conference in the HCI field.
- Build latest Neuroscope, a brain-computer interface (BCI) and EEG-powered neurotechnology application using JavaScript, Python, Rete.js, and Electron to control robots with the MUSE device by processing brain waves.

PROJECTS

Dubverse **Delhi, India**

Artificial Intelligence Developer *Oct 2021 – Oct 2022*

- Led a team of six undergraduates to develop a Computer Vision product for a $30M startup using Python, GCP, TensorFlow, and OpenCV, enhancing Google Lens' text masking and generating $100/week in beta.

MindBeats **Athens, Georgia**

Winner, UGAHacks *Feb 2025*

- Won Streamlit Category at UGAHacks 2025, EEG-based music recommendation system that real-time brain signals.
- Developed interactive Streamlit dashboard visualizing EEG-based emotion detection using custom CNN model and real-time playlist recommendations using OpenAI APIs, Python, and TensorFlow.

Hoister **Tuscaloosa, Alabama**

- Developed user-friendly web hosting platform for seamless deployment, of backend web services and front-end, full-stack applications using AWS (EC2, S3, and IAM) with React, Next.JS, Golang, TypeScript, Kafka, and Docker.

SKILLS

Programming: Golang, Python, Typescript/Javascript, C/C++, Java, C#/.NET, Node.js, Next.js, React, Vue, Angular
Developer Tools: Git, AWS, Docker, Kubernetes, Tableau, Microsoft Power BI, Google Cloud Platform, Azure, Bitbucket
Other Tools: Kafka, MySQL, PostgreSQL, GraphQL, GRPC, WebSockets, REST, MongoDB, WebRTC, HTML/CSS, Electron, Django