

PRANAY JOSHI

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EDUCATION

The University of Alabama

Tuscaloosa, Alabama

B.S. in Computer Science, Minor in Robotics

May 2026

- **GPA:** 3.96/4.00, 2x President's List, University Honors Scholar
- **Achievements:** Google Summer of Code 2023(GSOC), ACM ICPC 2023 SEC conference finalist
- **Related Coursework:** Data Structures & Algorithms, Software Design and Engineering, Artificial Intelligence, Machine Learning, Object-Oriented Programming, Probability & Statistics

EXPERIENCE

Center for Advanced Public Safety

Tuscaloosa, Alabama

Backend Developer

August 2024 – Present

- Led the development of web-based statistics platform for visualizing different relationships between E-crash data from all 67 counties of Alabama.
- Leverage Golang's concurrency with Next.js to perform instant queries on the department's SQL database, to build multiple features for over 170+ divisions.
- Utilize Docker, AWS EC2, RDS, IAMs, and E-crash's server to deploy the application for public safety departments.

Google SOC, Postman

Remote

Software Developer Intern

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.
- Tackled JSON Schemas' nested referencing and documented code changes and critical technical decisions.

Human Technology and Interaction Lab, The University of Alabama

Tuscaloosa, Alabama

Research Assistant

Jan 2024 – Present

- Build a brain-computer interface (BCI) and EEG powered signal processing algorithms and Bluetooth SDL for neurotechnology applications utilizing JavaScript, Python, Web Bluetooth API, and Electron.
- Control DJI Drones using MUSE device and Rete.js for monitoring 4 data streams, live data recording, storage, and machine learning applications.

Dubverse

Delhi, India

Artificial Intelligence Developer

Oct 2020 – Oct 2022

- Led team of 6 undergraduates in developing Visual Translation product, for 30+ million dollar startup, using Python, Google Cloud Platform, Tensorflow, and OpenCV.
- Improved the background text masking capabilities of Google Lens, and made 100 dollars/week in beta version.

PROJECTS

Hoister

Auburn, Alabama

Team Lead, Auburn Hacks

Feb 2024 – June 2024

- Developed a user-friendly web hosting platform for seamless deployment, of backend web services and front-end, full-stack applications.
- Leveraged AWS EC2, S3, and IAM with React, Next.JS, Golang, TypeScript, Kafka, and Docker ensuring scalability and reliability of the product

Medico

India

StarStruck project, GitHub

May 2020 – Sept 2020

- Engineered an AI-driven, CLI, and speech-based tool for detecting medical terms, leveraging Amazon Transcribe API and NLP libraries such as NLTK, Pandas, and NumPy.
- Served as an inspiration for universities' computer science projects, and was awarded "Popular" badges by GitHub, with 20+ stars and over 1500 views.

SKILLS

Programming: Golang, Python, Typescript/Javascript, C/C++, OCaml, Java, C#/.NET, Node.js, Next.js, React, Vue

Developer Tools: Git, AWS, Docker, Kubernetes, Tableau, Microsoft Power BI, Google Cloud Platform, Azure, Bitbucket

Other Tools: Kafka, MySQL, PostgreSQL, GraphQL, GRPC, Websockets, MongoDB, WebRTC, HTML/CSS, Electron