AKASH G

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Experience

TBL Building Sciences   **May 2023 – August 2023**
Software Development Engineer Intern   *New York City, New York*
- Created a new microservice that aggregates metrics from 500+ sensors from around the world.
- Developed a configuration system to customize the user experience on the dashboard.

Amazon   **August 2021 – August 2022**
Software Development Engineer   *Chennai, India*
- Designed a multi-dimensional device customization system to scale the FireTV ecosystem.
- Unified and automated FireTV business reporting and disbursement pipelines.
- Enabled touch capability with full remote compatibility for FireTV Auto devices.

Amazon   **January 2021 – July 2021**
Software Development Engineer Intern   *Chennai, India*
- Designed a system to seamlessly onboard new partner programs into the FireTV ecosystem.
- Developed an OTA software update publishing system with multi-dimensional granularity.

Madbee   **May 2019 – May 2019**
Software Development Engineer Intern   *Chennai, India*
- Developed end-to-end applications using React and Flask.
- Setup CI/CD pipeline infrastructure for the existing applications in Azure DevOps.

Education

Stony Brook University   **August 2022 – May 2024**
Master of Science in Computer Science, GPA: 3.7/4   *Stony Brook, New York*
- Research Assistant at Stony Brook AI Institute and Computer Vision Lab.
- Teaching Assistant for CSE 303: Theory of Computation.

Amrita School of Engineering   **June 2017 – June 2021**
Bachelor of Technology in Computer Science, GPA: 9.3/10 with Distinction   *Coimbatore, India*
- Undergraduate Student Researcher at Smart Spaces Lab and Cyber Security Lab.

Publications

Toxic Comment Classification using Transformers | *IEOM 2021*   **March 2021**
- Classifying comments based on the toxicity using LSTM, GRU, CNN, and Transformer architectures.

Projects

LLM Chatbot Tutor | *Python, Streamlit, LangChain, OpenAI*   **September 2023**
- A Socrates' style LLM-bot to supplement primary school education in Italy.

Shadow Removal Diffusion | *Python, PyTorch, OpenCV, Tensorflow*   **December 2022**
- Diffusion model that removes shadows from images through conditioning.

Text Analysis and EDA | *Numpy, Pandas, Matplotlib, Sklearn, Seaborn*   **January 2021**
- Web application to display the statistics of COVID-19 infection rates with state and district-level granularity.

Faculty Dashboard | *React.js, Node.js, MySQL, Heroku, GitHub pages*   **January 2020**
- Web application for the faculty to manage course plans, timetables, leaves, and announcements.

Voice-based Transport Enquiry System | *React.js, Node.js, OracleDB, Heroku*   **October 2019**
- Web application to book bus tickets with support for voice commands and text-to-speech.

Technical Skills

Programming Languages: Python, Java, C, C++, Typescript, Javascript, HTML, CSS, Ruby, Kotlin, Matlab, Lisp.
Technologies: React.js, Node.js, Nest.js, Express.js, Spring, Flask, Django, Streamlit, PyTorch, Tensorflow, MySQL, MongoDB, GraphQL, Redis, Cassandra, Hadoop, Spark, Apache Kafka, Docker, Kubernetes, AWS, GCP, Azure, Heroku.

Extracurricular

- Served as a senator at the Graduate Student Organization for the academic year 2023-2024.
- Hosted AI Adept and other competitions as part of Anokha 2020, a nationwide TechFest.
- Volunteered for over 100 hours at the University's chapter of the National Service Scheme from 2017-2020.