

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 using Nest.js** to aggregate metrics from 500+ sensors globally.
- Implemented a flexible **filter system using GraphQL** for 75% of the controls dashboard to boost user satisfaction.

Amazon

August 2021 – August 2022

Software Development Engineer

Chennai, India

- Designed a multi-dimensional **device customization system using Ion**, to allow FireTV ecosystem scaling by 300x.
- Automated 3P business reporting** and disbursement pipelines, reducing processing times from 2 months to 1 week.

Amazon

January 2021 – July 2021

Software Development Engineer Intern

Chennai, India

- Built the backend system for onboarding partner programs in **Java**, speeding up the integration process by 10x.
- Revamped the FireTV over-the-air software update publishing system, **accelerating the deployment speed by 85%**.

Madbee

May 2019 – June 2019

Software Development Engineer Intern

Chennai, India

- Created UI for the company website using **React with 95% performance efficiency** and full SEO compatibility.
- Established **CI/CD pipeline infrastructure in Azure**, cutting deployment times from 3 days to 1 hour.

EDUCATION

Stony Brook University

August 2022 – May 2024

Master of Science in Computer Science, GPA: 3.8/4

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.

PROJECTS

Faculty Dashboard | *React.js, Node.js, MySQL, Heroku, GitHub pages, SonarQube*

[Website](#)

- Developed the **authentication server using React** and the backend system using Node.js to handle DB queries.

Voice-based Ticket Booking System | *Java, Spring, JSP, OracleDB, Heroku*

[GitHub](#)

- Developed an algorithm in Java to handle **200 concurrent users** in the ticket booking system.

Text Scoring and EDA for StackOverflow | *Numpy, Pandas, Matplotlib, Sklearn, Seaborn*

[Kaggle](#)

- Built a **text scoring method in Python** to rank StackOverflow questions, focusing on quality and readability.

COVID-19 Dashboard | *Flask, SQLite, Postman, GitHub pages*

[Website](#)

- Built an auto-updating E2E **statistics dashboard using Flask** to track COVID-19 data, serving 1200+ users.

LLM Chatbot Tutor - Pi School | *Python, Streamlit, LangChain, OpenAI, LLaMA*

[Pitch](#)

- Created an LLM-based **chat application on Streamlit** for 25+ primary schools in Italy.

PUBLICATIONS

Toxic Comment Classification using Transformers | *IEOM Singapore 2021*

[Paper](#)

- Classifying comments from internet forums based on toxicity using LSTM, GRU, CNN, and Transformer architectures.

TECHNICAL SKILLS

Programming Languages: Python, Java, C++, Javascript, HTML, CSS, Ruby, Kotlin, Golang, Matlab, Bash.

Technologies: Docker, Kubernetes, AWS, GCP, MySQL, PostgreSQL, MongoDB, GraphQL, Redis, Hadoop, Apache Kafka.

Frameworks: React.js, Node.js, Nest.js, Express.js, Spring, Flask, Django, Streamlit, PyTorch, Tensorflow, OpenCV.

EXTRACURRICULAR

- Served as the **Senator for the Graduate Student Organization** during the academic year 2023-2024.
- Problem-setter** and event manager for AI Adept as part of Anokha 2020 National TechFest.