

Pranav Goyanka

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EDUCATION

Boston University

MS in Computer Science | GPA: 3.78/4.00

Courses: Principles of Machine Learning, Distributed Systems, Tools for Data Science

Boston, MA

Sep 2023 – Dec 2024

Thapar Institute of Engineering and Technology

BE in Electronics and Communication Engineering | CGPA: 8.84/10.00

Courses: Data Structures and Algorithms, Operating Systems

Patiala, India

Jul 2017 – Jun 2021

TECHNICAL SKILLS

Programming Languages: Golang, Typescript, Javascript, C++, Python, Java, SQL, HTML/CSS

Frameworks: Pytorch, TensorFlow, Node.js, Socket.IO, Websocket, OpenTelemetry

Tools & Libraries: Flink, Kafka, Redis, scikit-learn, AWS, RESTful API, Git, Linux

EXPERIENCE

Teaching Assistant and Course Designer

Boston University

Jan 2024 – Present

Boston, MA

- Assisted in CS350 - Distributed Systems course, conducting weekly lab sessions and office hours.
- Designed programming assignments and grading infrastructure for the course.
- Implemented the OmniPaxos consensus protocol in Golang to overcome Raft's partial connectivity limitations.

Software Development Engineer

Mobile Premier League

Oct 2022 – Jul 2023

Bangalore, India

- Engineered backend systems and centralized libraries for NodeJS based server-authoritative games.
- Optimised infrastructure utilization and monitoring via centralized libraries and OpenTelemetry integration, resulting in a 40% reduction in infrastructure costs.
- Improved existing matchmaking systems, leading to a 70% increase in user engagement and retention.

Software Development Engineer

Amadeus Software Labs

Aug 2021 - Oct 2022

Bangalore, India

- Built a Splunk Dashboard for Functional Monitoring and FMEA, cutting manual tasks by 50%.
- Resolved daily incidents promptly in the C++ based Back Office Tool, resulting in a 40% incident reduction.
- Rectified malfunctioning SQL database purge scripts, reducing disk space usage over 90%.

Software Engineering Intern

Amadeus Software Labs

Jan 2021 - May 2021

Bangalore, India

- Created 'Chatbot as a Service', a modular framework to reduce chatbot development effort by more than 50%.
- Developed standalone Java libraries for Google Dialogflow and IBM Watson's NLP APIs, and MongoDB.
- Released the libraries to the internal Maven Repository, used by other chatbot teams at Amadeus.

Student Developer

Google Summer of Code at AOSSIE

Jun 2020 - Aug 2020

Remote

- Contributed to the 'Social Street Smart' project aimed at combating fake information on the internet.
- Developed a JavaScript API to detect disinformation in images using the Google Images API.
- Created and deployed serverless Machine Learning models and APIs for fake news detection.
- Migrated ML models built using Tensorflow to TFLite, making them lightweight and AWS Lambda compatible.

PROJECTS

Operator Placement on the Edge in Apache Flink | Flink, Edge Compute

Feb 2024 - May 2024

- Enhanced Flink to dynamically move operators to edge devices to reduce network congestion.
- Automatically generated placement plans for user queries.
- Developed a prototype query re-writer using code generation to support any user-defined query.

Automated Trading System | Python, TensorFlow, scikit-learn

Mar 2024 - Apr 2024

- Built LSTM models to predict daily temperatures for four cities using multi-source weather data.
- Created an automated trading system with Kalshi Python API, earning \$1,887 profit.
- Collected, cleaned, and processed weather data from four sources via APIs for model training.