

GAUTHAM PREM KRISHNAN

Jersey City, New Jersey

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Education

Stevens Institute of Technology

Aug 2021 – May 2023

Master of Science in Computer Science; GPA: 3.839/4.0

Hoboken, New Jersey

Relevant Coursework: Java Programming, Data Structures and Algorithms, Advanced Algorithms, Computer Organisation and Programming, Big Data, Artificial Intelligence, Applied Machine Learning.

Amrita School of Engineering

Aug 2017 – May 2021

Bachelors of Technology in Electronics and Communication Engineering

Amritapuri, India

Relevant Coursework: Object Oriented Programming, Python, Computer Networks, Signal Processing, Stochastic Process and Probability

Work Experience

MEMX LLC (Members Exchange)

Jan 2023 – Present

Software Developer Intern

Jersey City, NJ

- Developed a full-stack website using Next.js and Strapi providing clients with detailed trading information.
- Worked on building new REST API for data exchange between NodeJs Server and Java Server.
- Improved efficiency of the Java server by revamping the API endpoints.
- Worked with Cyber Security Team, to run and diagnose managed vulnerability scans.

Vivpro.ai

May 2022 – Aug 2022

Software Developer Intern

Lansdale, PA

- Built a highly optimized automated script for parsing, preprocessing, and uploading data from Postgres to Elasticsearch, resulting in an **80%** reduction in manual effort
- Developed & deployed multiple Restful APIs for React JS web application on Python Flask server backend on AWS.
- Operated in an Agile Development system using tools like Confluence, Jira, and Github for version control.

Hanlon Financial Lab

Sept 2021 — Apr 2022

Lab Assistant (Part-time)

Hoboken, New Jersey

- Maintained & solved issues of more than 10 ReactJS, Spring Boot, and web-based projects used by **100+** students.
- Managed both SQL financial databases for financial data analysis & Linux servers on a continuous basis.

Flytbase Labs Pvt Ltd.

June 2020 — Sept 2020

Software Developer and AI Intern

Pune, India

- Solved multiple issues of Django backend which **improved the overall latency** of the application from **9ms to 4ms**.
- Enhanced CNN based Image classification accuracy by using Python, PyTorch, Yolact++; optimized & reduced the segmentation model inference time from 10 seconds to 2 seconds, and also **improved Accuracy from 82% to 88%**.

Technical Skills

Programming languages: Java, C++, C, HTML, CSS, JavaScript, SQL, Python

Developer Tools: Git, Amazon Web Services(AWS), SCRUM, Agile, Confluence

Technologies/Frameworks: Spring Boot, Node.js, Flask, React.js, Next.js, Django, TensorFlow, PyTorch, Docker, Kubernetes, Linux, Docker

Projects

Balance Tracker App

Tools- JavaScript, React.js, Node.js, MongoDB

- Developed a Full Stack Word Search which accepts a list of words and grid size, and generates a Word Search Game panel developed using Java with Spring Boot as backend and Frontend using JavaScript.
- Created an Application Programming Interface(API) using Spring Boot as backend and is connected to the frontend
- Used Heroku to deploy the Full stack Application into the web.

IPL(Indian Premier League) Dashboard App

Tools- Java, Spring Boot, React, AWS

- Developed an IPL Dashboard Full Stack web Application giving insights into IPL teams & previous year tournaments.
- Used JavaScript and React to create the frontend and Java, Spring Boot for developing backend API. Spring Batch is also used to insert the data from the IPL data source. Used Java Persistence API(JPA) to interact with the database.
- Deployed the application successfully using AWS Elastic BeanStalk.

Awards & Leadership Skills

- Led a team of 6 for developing IoT based crop protection system which is fully funded by the IEEE HAC committee.
- Received funding of \$10000 from India forest dept to deploy Autonomous AI, Drone based forest fire detection system.
- Organized and taught Mathematics classes for a higher secondary school as a volunteer.