

AMEYA SANTOSH GIDH

Boston, USA | [+1\(857\) 437 9760](tel:+18574379760) | ameyagidh2@gmail.com | in.linkedin.com/in/ameya-gidh | github.com/ameyagidh | ameyagidh.netlify.app/

EDUCATION

Northeastern University, Khoury College of Computer Science

Boston, USA | Sept 2021 – May 2024

Master's in computer science GPA – 3.75 / 4

Courses: Machine Learning, NLP, Data Structures, Algorithms and Computer Systems, Web Development, Mobile App Dev

University of Mumbai, Sardar Patel College of Engineering

Mumbai, India | Aug 2017 – May 2021

Bachelor of Technology GPA – 9.20 / 10

TECHNICAL SKILLS

Languages and Databases: Python, Java, JavaScript, C++, C#, MongoDB, SQL, MySQL, Firebase, PostgreSQL

Cloud technologies: Amazon web service, Apache Kafka, Microsoft Azure, Docker, k8, Spring Boot, Unity

Web tools and Frameworks: React.js, Node.js, Express.js, jQuery, Flask, Angular, Bootstrap, HTML, CSS

WORK EXPERIENCE

Delsys | Software Engineer Coop

Massachusetts, USA | Jan 2023 – Aug 2023

- Pioneered the idea to integrate firmware update with Discover (a C# based software), leading to 7% reduction in queries
- Innovated a portable solution to use batch scripts that interact with API increasing interoperability among 20+ products
- Enhanced PC Firmware Update Python app by adding extra sensor support, analysis of data and 15% reduction in files
- Successfully Programmed state-of-the-art C++ software, evaluated different serialization schemes like JSON, Google Protocol buffer and custom serialization to transmit real-time data between the Delsys API and Vicon Nexus software
- Achieved a remarkable 320-millisecond runtime reduction aiding live data transfer for next-gen Delsys hardware

Northeastern University | Graduate Teaching Assistant

Massachusetts, USA | May 2022 – Dec 2022

- Coordinated with faculty to manage logistics, grade assignments and supervised exams for Theory of Computation
- Conducted weekly office hours, tutored over 100 students and provided feedback for their academic growth

Adagrad AI | Machine Learning Intern

Maharashtra, India | July 2020 - Sept 2020

- Engineered a PyTorch-based deep learning model for diagnostics of melanoma skin cancer with 90% recall
- Streamlined the modeling process by deploying it on Microsoft Azure, resulting in a 16% increase in client reach
- Fine-tuned object detection CNN model made using OpenCV for the project Auto Defect Detect which aimed towards precise flaw detection in automotive parts, achieved 91% precision and 93% accuracy thus saving 80k for the user
- Crafted a MEAN stack website “Well Life” offering telehealth services, health records management, emergency service assistance, AI Chat bot assistance, EHR integration and community forums augmenting user experience by 12%

ABP Systems and Solutions | Java Software Developer Intern

Maharashtra, India | Nov 2019 – May 2020

- Spearheaded the development of a Java Spring Boot e-commerce platform, utilizing microservices architecture and RESTful API, resulting in a 17% reduction in load time and a 20% improvement in checkout conversion rate
- Employed a Strategic approach to containerize the app using Docker and Kubernetes, deployed it on AWS using Jenkins CI/CD pipeline, improving system reliability, scalability, maintainability by 15% thus estimating a \$30,000 saving
- Reduced API response time by 11% through a combination of caching, load balancing and content compression methods
- Optimized database queries by appropriate indexing, reducing joins, data pagination and asynchronous processing
- Collaborated with testing team debugging over 100 errors by intensive black box testing for Spring MVC payroll project

PROJECTS

Stock Price Predictor: Built LSTM, ARIMA models, conducted time series and sentiment analysis on financial data using Python libraries like TensorFlow, NLTK, Pandas, NumPy, scikit-learn and Matplotlib, deployed the model as a Flask RESTful API web app, added Apache Kafka pipeline to store data on AWS for scalability intended to help in short-term investing strategy for users

Finance Application: Architected an android expense tracker and budget manager app utilizing Java, Firebase, and Figma with features like timely Statistical visual reports, crypto tracker, news updates, EMI, and tax calculations additionally, conducted code reviews, navigated roadblocks using git and Jira thus elevated user engagement by 18% through continuous feedback system

e-Learning Website: Developed an immersive MERN Stack eLearning platform with React, JavaScript, HTML, CSS, Bootstrap for frontend, Node.js, Express.js for server-side functionality and MongoDB for data storage; enhanced security with context API, JWT tokens, and integrated Stripe for payments, bridging gap and helping over 1000 students connect to world class professors and learn

Self-Driving Car: Innovated a cutting-edge self-driving car game in Unity and designed in blender, leveraged reinforcement learning to train Artificial Intelligent agents and achieved 80% success rate in autonomous vehicle navigation and decision-making process

Airport Route Optimization: Leveraged Dijkstra's algorithm for quantitative route optimization, cutting distance and CO2 emissions by 35%, integrated real-time data analytics to adjust routes during peak times, minimizing delays and saving nature

ACHIEVEMENTS AND OTHER ACTIVITIES

- Graduate Research Apprentice: Open-source contributor to Knit Script project, created machine state diagram tool | [LINK](#)
- Secured 3rd Rank in VRC robotics competition with Raspberry Pi controlled robot outperforming 46 other teams | [LINK](#)