

# Ameya Santosh Gidh

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## EDUCATION

**Northeastern University, Khoury College of Computer Science, Boston, MA** Sept 2021– Aug 2024

*Masters in computer science GPA – 3.75 / 4*

**Relevant Courses:** Machine Learning, Natural Language Processing, Data Structures algorithms and their applications in computer systems, Web Development, Mobile App Development

**University of Mumbai Sardar Patel College of Engineering, Mumbai, India** Aug 2017 - May 2021

*Bachelor of Technology GPA – 9.20 / 10*

## TECHNICAL KNOWLEDGE

**Languages and Libraries:** Python, Java, JavaScript, C++, C#, C, MATLAB, TensorFlow, PyTorch, Pandas, NumPy, Nltk  
**Deployment/Framework Tools:** AWS (EC2, S3, Sagemaker, RDS, lambda), Microsoft Azure, Docker, Spring Boot, Spring MVC  
**Web Design and Development:** Node.js, React.js, Angular, Express.js, jQuery, Flask, Django, Bootstrap, HTML, CSS,  
**Databases/Visualization:** MongoDB, SQL, MySQL, PostgreSQL, Firebase, Tableau

## PROFESSIONAL EXPERIENCE

**Delsys, Natick MA** Jan 2023 – Aug 2023

*Software Engineer Coop*

- Collaborated with a team of 6 professionals to enhance and expand functionality of the Trigno Discover software in C#
- Developed bash scripts to effectively interact with the Delsys API, enabling the device to enter bootloader mode to perform firmware updates, retrieved essential information from the API and tested it using postman
- Streamlined user experience by building a responsive UI/UX Python application that interacts with Avanti sensors
- Programmed state-of-the-art C++ software using Google Protobuf and json to serialize and deserialize Delsys sensor data(EMG, gyroscopic, accelerometer), seamlessly integrating with Delsys API and Vicon plugin
- Parsed and analyzed data, added new features and containerized the application using docker to make it scalable

**Northeastern University, Khoury College of Computer Science, Boston, MA** May 2022 – Dec 2022

*Graduate Teaching Assistant Theory of Computation*

- Supported course delivery by supervising exams, evaluating assignments, and resolving queries for seamless instruction

**Adagrad A.I, Pune, India** July 2020 - Sept 2020

*Machine Learning Intern*

- Deployed a CNN model created using PyTorch on Microsoft Azure for accurate melanoma skin cancer prediction
- Critically analyzed data patterns, derived feature maps from pooling layers which improved the recall by 8%
- Performed fine-tuning of the object detection model created using OpenCV and yolo for the project “AutoDefectDetect” project which determined defects in automobile parts during manufacturing thus helping in quality maintenance

**Omvsab IT Solution, Pune, India** Nov 2019 – May 2020

*Java Software Developer Intern*

- Created a Payroll Management system using Spring MVC and SQL, deployed it on AWS by making an EC2 instance
- Configured Amazon RDS instance to host database backend with HTTPS, SSL certificates for robust secure connections.
- Integrated an appraisal-based incentive system for enhanced employee motivation and streamlined tracking
- Debugged, tested the software and reduced the code length by 15%, file count by 10 % using Object oriented principles

## PROJECTS

**Time Series Analysis and Recurrent Neural Network Analysis with Financial Data** Sept 2022 - Dec 2022

- Predicted stock prices using Time series analysis and RNN, evaluating the model’s accuracy, robustness, and efficiency
- Trained LSTM, ARIMA models built using S&P500, Nasdaq data and deployed the model on a flask app using FastApi

**Movie Time** July 2022 - Aug 2022

- Built cutting-edge movie streaming (MERN Stack) website using html, CSS, bootstrap, JavaScript and jQuery for front end, react and express for backend and mongo DB database which was hosted on Mongo DB Atlas cluster
- Implemented Features which enables users to register and login using google OAuth service, watch movies, add, or edit their reviews, create favorites list and an admin dashboard to manage the users and movie contents on the website

**Godzilla Finance** June 2022 - July 2022

- Designed android expense tracker and budget manager app using Java, Firebase and Figma with features like statistical view and visual reports of timely expenses, fetched and parsed real-time financial updates API, EMI and tax calculations
- Led the team by navigating roadblocks using Git, Jira, and participated in code reviews for continuous improvement

## ACHIEVEMENTS AND OTHER ACTIVITIES

- Organized event, devised marketing strategy for "Her Incredible Minds" nonprofit promoting young women in STEM
- Authored and Published a Research paper titled Design and Simulation of Electric Vehicle in IJARIII