AMEYA SANTOSH GIDH

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EDUCATION

Northeastern University, Khoury College of Computer Science   **Boston, USA | Sept 2021 – May 2024**
Master's in computer science GPA: **3.75 / 4**   *Graduate Teaching Assistant - Theory Of Computation*
Courses: Web Dev, Mobile Application Dev, Data Structures, Algorithms and computer systems, Machine Learning, NLP

University of Mumbai, Sardar Patel College of Engineering   **Mumbai, India | Aug 2017 – May 2021**
Bachelor of Technology, GPA: 9.20/10.0

TECHNICAL SKILLS

Languages and Databases: Python, Java, JavaScript, C++, C#, MySQL, SQL, MongoDB, Firebase, PostgreSQL
Web Development Technologies: React.js, Node.js, Express.js, jQuery, Flask, Angular, HTML, CSS, Sass, Bootstrap
Cloud-Native DevOps: AWS, Microsoft Azure, Apache Kafka, Docker, Kubernetes, Spring Boot, GitHub
ML and Data Science: TensorFlow, PyTorch, Scikit-Learn, NumPy, Pandas, NLTK, OpenCV, Matplotlib

WORK EXPERIENCE

Software Engineer Coop | *Delsys*   **Massachusetts, USA | Jan 2023 – Aug 2023**
- Pioneered integration of firmware updates into Delsys **.Net** software using **C#** and **MVVM**, reducing queries by **7%**
- Innovated a portable solution using batch scripts to facilitate interactions with APIs, streamlining data exchange between software components and fostered greater interoperability among more than **20** products within the ecosystem,
- Enhanced **UI/UX** design, performed **15%** file reduction for **Python** Firmware Update app, introduced features like additional sensor support, data integrity monitoring thus leading to effortless interaction across wide range of devices
- Successfully programmed state-of-the-art **C++** software, evaluated on different data marshaling schemes like **JSON**, **Google Protocol buffers** and custom serialization to send real-time data between **Delsys API** and external systems
- Achieved a remarkable **320-millisecond** runtime reduction aiding live data transmission for next-gen Delsys hardware

Machine Learning Intern | *Adagrad AI*   **Maharashtra, India | July 2020 - Sept 2020**
- Engineered a **PyTorch** based deep learning model for melanoma skin cancer detection, following **MLOPS** practices for deployment on **Microsoft Azure**, containerized the model using **Docker**, stored it on ACR and created **API** endpoint using AKS
- Utilized **CI/CD** practices for end-to-end product life-cycle development for Automobile defect detection Machine Learning project, aimed to save **8k** for client through predictive maintenance and saving users from hazardous accidents
- Enhanced user experience by **12%** through integrating of **AI** chatbot in mobile app and website, delivering 24/7 assistance

Java Software Developer Intern / *ABP Systems and Solutions*   **Maharashtra, India | Nov 2019 – May 2020**
- Spearheaded the development for a Full Stack **Java Spring Boot** e-commerce platform, utilizing **microservices** architecture, **RESTful API**, **Apache Kafka** resulting in **17%** reduction of 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 leading to improvement in system reliability, scalability, maintainability thus saving **$3000** for company
- Reduced API response time by **11%** through a combination of methods like caching, load balancing and content compression
- Collaborated with a team of **9** to build **Spring MVC** payroll system and optimized **SQL** queries by **7%** using stored procedures

PROJECTS

NGO Shelter Support: Built a software using **Java** design patterns, **MySQL**, and **Maven** to address the critical issue of healthcare for homeless population by connecting them to health workers and activists thus helping them get appropriate help

Book Database Store: Created a software using **Python** and **SQL** relational database for simplifying book collection, used cryptography for secured user authentication, the project enables users to digitally organize and manage their favorite books

E-Learning Website: Developed a **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**, used Stripe for payments, this project is aimed to help **1000+** students get education from world class professors

Finance Application: Lead a team of 6 to craft an android expense tracker and budget manager app utilizing **Java**, **Firebase**, and **Figma**, added features like visualization charts, crypto tracker, news updates, EMI, and tax calculations, conducted code reviews, navigated roadblocks with **Jira**, **git**, performed intensive testing and conducted surveys to constantly improve the app

ACHIEVEMENTS AND OTHER ACTIVITIES

- Graduate Research Apprentice: Open-source contributor to Knit Script, created machine state diagram tool | **LINK**
- Web Design Head for Tech fest, managed end-to-end website deployment built with Angular, PostgreSQL | **LINK**