

# AMEYA SANTOSH GIDH

USA (Open to relocation)

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## EDUCATION

**Northeastern University**, Khoury College of Computer Science  
Master of Science in Computer Science

**Massachusetts, USA | Sep 2021 – May 2024**

**Courses:** Data Structures, Algorithms, Computer Systems, OOPS, Mobile and Web development, DBMS, Machine Learning, NLP

**University of Mumbai, Sardar Patel College of Engineering**  
Bachelor of Technology

**Maharashtra, India | Aug 2017 – May 2021**

## WORK EXPERIENCE

**Research Apprentice (Python Developer)** | Northeastern University

**Massachusetts, USA | Sep 2023 – Dec 2023**

- Revitalized knit-script an open-source Python library by incorporating machine state diagram to fulfill end-user requirements for product visualization during manufacturing, thus reducing wastage of raw material and increasing user control over product by 20%
- Spearheaded the addition of pivotal enhancements to the library by revamping the codebase using object-oriented programming

**Software Engineer Coop** | Delsys

**Massachusetts, USA | Jan 2023 – Aug 2023**

- Achieved a remarkable 320ms runtime reduction aiding real-time data transfer for next-generation Delsys products and the API
- Implemented new features into Delsys desktop app using MVC architecture, leading to 7% reduction in support queries
- Streamlined the workflow for the software by identifying bottlenecks and executing software improvements using innovative portable solutions to automate data exchange between the Delsys API and 20+ new products in the entire ecosystem
- Collaborated with multiple cross functional teams to develop an SDK, to boost team productivity and tool efficiency

**Software Engineer Intern** | ABP Systems and Solutions

**Maharashtra, India | Oct 2020 – Sep 2021**

- Engineered an ecommerce supply chain software, leveraging microservices architecture to reduce yearly maintenance cost by \$30k
- Added new services, APIs to scale operations from 4 to 9 warehouses, increasing B2B orders by 40% and API response by 11%
- Aligned novel functionalities closely with client expectations, influencing product strategy for the upcoming fiscal year

**Software and Machine Learning Intern** | Adagrad AI

**Maharashtra, India | July 2020 - Sep 2020**

- Orchestrated the integration of MLOps practices for DNN models by configuring the pipeline using Docker for containerization and AWS for hosting, which resulted in 40% faster model deployment process and saved around \$20000 annually on the resources
- Incorporated an AI bot on the website and app for delivering 24/7 assistance to the user resulting in 100+ unique visitors per month

**Data Scientist and Algorithm Intern** | ABP Systems and Solutions

**Maharashtra, India | Nov 2019 - May 2020**

- Coordinated with a 10-member team to build interactive visualizations, used python, SQL to collect and analyze large-scale data of seller listing, seasonality, and marketing to gain insights about significant features to drive monthly sales performance by 25%
- Followed CI/CD principles to migrate legacy code into a new, improved in-house framework leading to 30% increase in efficiency

## ACADEMIC PROJECTS

- **Distributed Messenger:** Created a distributed Messenger in Java and SQL, employing decentralized architecture for improved scalability and fault tolerance for seamless real-time messaging and media sharing on a P2P network to enhance communication
- **Image Processing Software:** Built an Image Manipulation software application using the MVC design pattern with features like Compression, Histogram, Color Correction, Levels Adjustment, and Split View, enhancing user experience and functionality
- **Project Management website:** Developed a MERN stack SaaS web app with features like secured user authentication, interactive Kanban dashboards and breakout rooms for uninterrupted communication to improve project operational efficiency
- **Airline Twitter Support:** Crafted an automated reply support system for Twitter using Kafka, Spark, and LSTM models on AWS to process live tweets, perform sentiment analysis, NER, and respond with custom tickets to increase customer satisfaction
- **Bob-the-Bot, the University Discord bot:** Created a discord bot using Python and MongoDB providing auto user verification and certain in-built games, deployed on an AWS EC2 instance thus facilitating verification process of over 2000 incoming students

## SKILLS

<b>Programming Languages and Database Tools:</b>	Python, Java, C++, C#, SQL, MongoDB, PostgreSQL
<b>Machine Learning and Data Science Frameworks:</b>	TensorFlow, SciPy, NumPy, Pandas, NLTK, Matplotlib
<b>Web Development Technologies:</b>	JavaScript, React.js, Node.js, Django, Flask, HTML, CSS
<b>Cloud-Native DevOps:</b>	AWS, Microsoft Azure, Apache Kafka, Docker, Spring Boot, Git

## LEADERSHIP ROLES AND ACHIEVEMENTS

- Graduate Teaching Assistant (TA) for Theory of Computation, tutored over 100 + students and gave them constructive
- Secured Third rank in VRC Robotics competition by leading the team build an AI Autonomous bot for efficient food delivery
- Web Design Head for college fest, supervised development process and devised SEO strategies to raise event participation by 25%