

# VISHWA SHETH

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## EXPERIENCE

### Software Development Engineer | Amazon

Jun 2022 – Mar 2023

*Technologies Used : C, C++, Java, Python, Raspberry Pi, Jira, Bitbucket, Linux, Git, Confluence*

- Enhanced security of Fire Stick OS by integrating new patches and ensuring compatibility with Android updates
- Resolved critical production incidents, minimizing downtime and maximizing customer satisfaction
- Implemented new security features within Amazon Common Software (ACS) for various Amazon devices
- Provided constructive feedback to fellow developers, improving code quality and software reliability

### Senior Analyst | Deutsche Bank

Aug 2020 – May 2022

*Technologies Used : JPA, Spring Tool Suite, Oracle, ActiveMQ, JUnit, Mockito, Jira, Bitbucket, Git, Rest APIs, Microservices*

- Developed new features for the reconciliation tool, enhancing functionality and efficiency
- Reduced manual effort of Business Analysts by 90% through performance improvements
- Delivered responsive on-call support for production issues, improving user experience
- Deployed new developments and enhancements in the production environment

### Intern | Acko General Insurance Limited

Jan 2020 – Jul 2020

*Technologies Used : Selenium, Java, Postman, Jenkins, Jira, MySQL, Javascript*

- Created an automated testing framework for web and mobile apps, replacing manual testing
- Developed a performance and stress testing tool to assess application scalability and reliability
- Demonstrated problem-solving skills while contributing to quality assurance and performance evaluation

### Summer Research Intern | DAIICT

May 2019 – Jul 2019

*Technologies Used : Spring Tool Suite, Java, HTML, CSS, JSP*

- Enhanced the front-end of the Use Case Modeling tool which resulted in a more user-friendly platform for stakeholders.
- Developed a JSP-based interface in Spring Tool Suite to improve tool functionality and enhance the user experience.

## SKILLS

**Programming Languages:** C, C++, Python, Java, Javascript, Objective-C, Typescript

**Machine Learning & AI:** PyTorch, Numpy, Pandas, Neural Networks, Deep Learning, Data Visualization

**Frameworks and Technologies:** Spring Boot, JPA, Selenium, HTML, CSS, Apache Spark, Apache Hadoop, MPI, REST APIs

**Database Management:** Oracle, pgAdmin, MySQL, Postgresql

**Development Tools:** Visual Studio Code, Eclipse, Git, Apache Maven, Jenkins, Postman, Jira, MATLAB, PBS, Putty

**Libraries and Additional Technologies:** GitHub, Numpy, Pandas, PyTorch, CUDA, ActiveMQ, Bitbucket, JUnit, Mockito, JQuery, JSP, OpenMP, Agile Methodologies

**Operating Systems and Platforms:** Linux, Raspberry Pi, Unix-based HPC environments

**Soft skills:** Problem-solving, Communication, Leadership, Adaptability, Collaboration, Teamwork, Creativity, Flexibility, Integrity

## PROJECTS

### A Mandelbrot Set Parallelization| MPI, OpenMP, C++, Parallel programming, HPC, PBS, Git, Linux

Mar 2024 – Apr 2024

- Implemented a parallel version of the Mandelbrot set generation using MPI, optimizing performance across multiple nodes.
- Achieved significant speedup by efficiently distributing computation workload, analyzing performance scaling from 1 to 8 nodes.
- Explored advanced parallelization strategies including a manager/worker model for task-based distribution, demonstrating proficiency in distributed computing and performance optimization.

### Classifying The Impact Of Financial News On Stock Market | Python, Web scraping, ML, NLP

Sep 2023 – Nov 2023

- Acquired financial data from Finhub and Yahoo Finance APIs and conducted data pre-processing techniques to prepare for analysis.
- Developed, optimized, and evaluated multiple machine learning models, such as SVM, Random Forest, Naive Bayes, Linear Regression, and K-Nearest Neighbors for sentiment analysis using established metrics to select the most suitable model.

### Online Trending | HTML, CSS, Typescript, React, Java, Oracle

Feb 2019 – Apr 2019

- Lead a team of 6 individuals in the development of an Online Trending platform and developed both frontend & backend components.
- Spearheaded the design of a streamlined database schema and implemented advanced user authentication and authorization features to ensure secure access to the platform.

## EDUCATION

### University of Illinois at Chicago

Aug 2023 – May 2025 (Expected)

*Master of Science, Computer Science*

*Chicago, USA*

**Coursework :** Computer Algorithms, Machine Learning, Neural Networks, Data Science, High Performance Computing, Data & Algorithmic

Fairness, Geo Data Structures on Data Queries, Natural Language Processing

### Dhirubhai Ambani Institute of Information and Communication Technology

Aug 2016 – May 2020

*Bachelors of Technology, Information and Communication Technology*

*Gandhinagar, India*

**Coursework :** Data Structures and Algorithms, DBMS, Operating Systems, Software Engineering, Systems Software, Computer Architecture, Computer Networks