Vaibhav Setia

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EDUCATION

Northeastern University   Boston, MA
Master of Science in Computer Science   *Sep 2022 – Dec 2024*

Punjab Engineering College   Chandigarh, India
Bachelor of Technology, Computer Science and Engineering; GPA: 8.3/10.0   *Aug. 2016 – May 2020*

EXPERIENCE

JP Morgan Chase & Co.   Bangalore, India
Software Developer II   *Aug 2020 – Aug 2022*
- Upgraded the security layer of 15+ microservices by fixing dependency compatibilities and version mismatches.
- Refactored various microservices and REST APIs to use caching, reduce API response time by 90%
- Developed and maintained elastic search indexes involving full indexing and delta indexing jobs, retrieval queries.

Software Engineering Intern   *Jan 2019 - July 2019*
- Migrated various post trading reports from SQL database to No SQL Athena database.
- Refactored report trading logic to fix bugs and decrease report generation time by approx. 1 hour.

Indian Institute of Technology (IIT)   Roorkee, India
Image Processing Research Intern   *Summer 2018*
- Designed and implemented an algorithm to deblur image frames of a video.
- Built scripts in C++ and Matlab to reduce image distortion by over 50%.

PROJECTS

Mindset Analysis Using Psychometric Games | *Python, React, AWS, PostgreSQL*   Aug 2019 – May 2020
- Developed a web portal of games for psychometric analysis of teachers' mindset
- Designed and built the games in react with PostgreSQL and hosted on AWS.

Digital Attendance System | *PHP, Html, Java*   Jan 2018 – June 2018
- Proposed and prototyped a solution to automate the attendance system using facial recognition.
- Implemented a web application to enable teachers and students to get attendance report in a single click.

Vehicle Registration and Information System | *PHP, Html, Python, OpenCV*   Aug 2018 – Dec 2018
- Built an end to end solution to register and identify all the vehicles commuting in and out of the college.
- Created an android app to register all vehicles and create/scan parking QR codes.
- Automated the vehicle tracking using number plate recognition and reduced the manual efforts.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL , JavaScript, HTML/CSS, MongoDB, PHP, ElasticSearch
Frameworks: SpringBoot, MongoDb, OpenCV, MATLAB, JUnit, Kibana, CI/CD
Developer Tools: Git, VS Code, Visual Studio, Athena, IntelliJ, Eclipse
Certifications: Deep Learning Specialization by Andrew Ng, Game Development using Java Applets

AWARDS & RECOGNITIONS

- Published paper 'Image Deblurring using Wiener Filtering and Siamese Neural Network' in iJES journal.   2022
- Presented and published paper 'Psychometric Assessment of Teacher Mindset using KNN-SVM in IEEE Xplore.   2022
- Winner of JPMC Global hackathon, automated the steps to verify the commits associated to a Jira in the pipeline.   2021
- 1st position in IEEE North India Hackathon, built desktop arcade games playable on linux and windows.   2020

RELEVANT COURSEWORK

Data Structures, Operating Systems, Program Design Paradigm, Database Systems, Algorithms, Software Engineering and Design, OOPS