# Vaibhav Setia

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## EDUCATION

**Northeastern University**                                                                              Boston, MA
*Master of Science in Computer Science*                                              *Sep 2022 – Dec 2024*
Relevant Coursework: Programming Design Paradigm, Database Systems

**Punjab Engineering College**                                                              Chandigarh, India
*Bachelor of Technology, Computer Science and Engineering; CGPA: 8.3/10.0*           *Aug. 2016 – May 2020*
Relevant Coursework: Data structures, OOPS, Algorithms, Operating Systems,
 Web Development, Software Engineering and Design, Computer Networks

## EXPERIENCE

**JP Morgan Chase & Co.**                                                                    Bangalore, India
*Software Developer II*                                                                *Aug 2020 – Aug 2022*
- Upgraded the security layer of 15+ springboot microservices by fixing dependency compatibilities and version mismatches.
- Refactored various client facing 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 NoSQL in-house Athena database.
- Refactored report trading logic to fix bugs and reduce report generation time by approx. 1 hour per report.

**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 fetch 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, Visual Studio, Athena Studio, 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, **JPMC Global hackathon**, automated the steps to verify the commits associated to a Jira in a pipeline. 2021
- 1st position in **IEEE North India Hackathon**, built java desktop arcade games, playable on linux and windows. 2020