

PARTH BAPAT

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Experience

Software Engineer Intern

May 2023 to Aug 2023

CCC Intelligent Solutions — Chicago, IL, USA

- Designed DataStream X: A cutting-edge web application that automated the generation of XML rule files, eliminating manual tasks by **100%**.
- Demonstrated exceptional full-stack development proficiency, including the meticulous design of **UI/UX** wireframes, the development of a comprehensive **API suite**, and the execution of advanced cloud integrations with **AWS** which boosted system efficiency by **40%**.
- Utilized serverless architectures and **containerization** to enhance scalability and reliability which also included automated testing frameworks.
- Collaborated with a high-caliber team of 5 engineers in deploying advanced **CI/CD** pipelines.

Research Data Analyst

Sep 2022 to Apr 2023

Pamplin School of Business management — Blacksburg, VA, USA

- Developed a comprehensive relational database schema in **MySQL** encompassing over **2.5 million** patent-inventor records, establishing a robust foundation for data analysis in **Python**.
- Conducted extensive graphical network analysis and **data mining** on this vast dataset using **Hadoop**, **Spark** for **ETL**. This pioneering research, leveraging **35+ years** of patent-inventor data has been instrumental in shaping innovative business strategies.

Software Engineer

Sep 2020 to Jun 2022

HSBC Software Development — Pune, India

- Orchestrated the execution of a Batch system to process a substantial volume of customer data in **Java**, while also leading cross-functional **scrum** meetings within a team of 15 members.
- Automated the new region schema setup by developing a suite of **Python scripts**, resulting in an impressive **50% reduction** in manual efforts and generating annual cost savings of approximately **\$50k**.
- Collaborated with 3 teams & created a robust data pipeline using **Spring Boot** to manage millions of records from Middle Eastern countries.
- Administered the entirety of **DevOps** activities, feature development, **API Design**, **SIT & UAT** testing, **Linux shell scripting**, debugging, collaborative issue resolution, production deployment and support.
- Implemented **Agile methodologies** for monitoring project timelines & resolving potential issues.
- Received **Employee of the Quarter** award for 3 quarters straight as the **project lead**.

Education

Master of Science (MS), Computer Science

Aug 2022 to May 2024

Virginia Tech University — Blacksburg, VA

GPA: 4/4

Courses: *Software Engineering, Web Application Development, User Interface Software, Data Analytics, Advanced Machine Learning, Data Structures in Java, Software Design and Quality, Database Management Systems.*

Bachelor of Technology, Electronics & Telecommunication

Aug 2016 to Oct 2020

Vishwakarma Institute of Technology — Pune, India

GPA: 3.9/4

Skills

Programming Languages: Java, Python, JavaScript, Typescript, SQL

Web Technologies: VueJS, NodeJS, ReactJS, NextJS, REST APIs, HTML5, CSS, Bootstrap, jQuery, Microservices, MongoDB

Frameworks & Tools: AWS (SAA Certified), Spring Boot, Maven, Docker, Gradle, Junit, Kubernetes, MySQL, Oracle, Git, Pandas, Hadoop, Spark, Scala

Relevant skills: API Design, System Design, Relational databases, Multithreading, Linux scripting, DevOps, Unit testing, NoSQL databases

Technical Interests: Software Engineering, Cloud Solutions, Machine Learning, Data Analytics, Object-oriented Programming, CI/CD

Projects

Faculty Resume Parser | React, Flask, NLP

- Developed a revolutionary full-stack web application for Virginia Tech built with **React** and **Flask**, automating citations parsing from resumes to accurately track faculty publications and presentations in one click.
- Endorsed by the Dean of Virginia Tech for university-wide use, the tool is now featured on the official VT website, serving as a key resource for evaluating yearly departmental achievements and productivity.

Pay & Park- Automatic paid car parking system | Android Application, Python, CNN

- Developed an **Android app** for Pay & Park management, strategically harnessing **Artificial Intelligence** to mitigate rush-hour traffic congestion.
- Formulated a cutting-edge module for number plate detection & character extraction, employing RPN & Faster R-CNN algorithms.
- Achieved an outstanding detection precision of **98%** within a mere **0.8 seconds**, reducing time consumption by an impressive **45%**

Certifications

- Oracle Certified Associate Java SE 8 Programmer**
- AWS Certified Solutions Architect Associate (SAA-C02)**
- Applied Data Science with Python specialization – University of Michigan, Ann Arbor**