

# Rhishabh Hattarki

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## EDUCATION

### M.S. Software Engineering

Arizona State University, Tempe, AZ

Aug 2022 - May 2024

4.0/4.0 GPA

### B.E. Computer Engineering

Savitribai Phule Pune University, Pune, India

Aug 2016 - May 2020

8.82/10.00 GPA

## TECHNICAL SKILLS

**Programming Languages:** Java, Python, C++, Bash, Javascript, PHP

**Front-End:** HTML, CSS, React.js, Vue.js, Bootstrap, React-d3.js, AJAX

**Tools, Databases, and OS:** SQL, PostgreSQL, MySQL, Git, GitHub, Windows, macOS, Linux/Unix, Spring, Spring Boot, Django, AWS, AWS EC2, AWS RDS

**Relevant Coursework:** Advanced Data Structures and Algorithms, Software Design, Foundations of Software Engineering

## PROFESSIONAL EXPERIENCE

### Persistent Systems (for UK-based banking client), Pune, India: Software Engineer

Jan 2021 - Jul 2022

- Spearheaded the development of a configuration management microservice for an Escrow Payment System, consisting of 13 REST APIs and leveraging Spring Boot, Hibernate, and PostgreSQL that made the existing system scalable.
- Revamped the front-end interface of the configuration service using React.js and React-d3-tree, resulting in a high-quality user experience and aesthetic enhancement.
- Mentored and led a team of 5 creative interns through the redesign and development of a vault management front-end using React.js, overseeing project setup, design, and issue resolution.

### Mithi Software Technologies, Pune, India: Trainee Software Engineer

Jan 2020 - Jan 2021

- Enhanced Skyconnect's security by implementing salted hashing authentication and RSA encryption plugins for the login system back-end using a PHP framework called Roundcube acting as a 2nd layer of protection.
- Addressed 5 security bugs across multiple services in Java, Python, and JavaScript, resulting in an improvement in system reliability and increased customer satisfaction.

### Apace Apparels and Equipment, Pune, India: Intern

Jun 2019 - Jul 2019

- Modernized an inventory management system by transitioning from Google Sheets to a secure web application built with Vue.js, PHP, and MySQL.
- Improved data privacy and system scalability by separating the inventory data from its presentation layer, resulting in enhanced performance and usability.

## ACADEMIC PROJECTS

### Astah Clone for Class Diagram Creation, Final Project for Software Design Course (ASU)

Nov 2022 - Dec 2022

- Developed a Java/Swing-based Astah clone that enables UML class diagram creation via click-and-drag functionality.
- Implemented 2 parsing features to generate code from class diagrams and create class diagrams from code.
- Supported 3 types of connections (association, composition, inheritance) and key features such as saving/loading diagrams to/from files.
- Leveraged 5 Java Design Patterns (Decorator, Observer, Chain of Responsibility, Strategy, Singleton) and two Architecture Patterns (MVC, Blackboard) to enhance maintainability.

### Real-Time Intrusion Detection System for IoT Networks using Random Forest, Final Year Project (SPPU)

Aug 2019 - May 2020

- Orchestrated a team of 4 to develop a React.js front-end and Django REST back-end for a full-stack Web Application that detects 5 cyber attacks on a dummy IoT network.
- Configured an IoT network with an Arduino UNO, Node MCU, an ultrasonic sensor node, and an HTTP Apache server.
- Implemented web sockets to enable real-time communication between the Apache server and Django back-end, handling a high volume of over 10,000 records with ease.
- Successfully demonstrated the effectiveness of the innovative solution by detecting all 5 attacks on the network.

## EXTRACURRICULAR EXPERIENCE

### Open Links Foundation, Pune, India: Volunteer Teacher

Jul 2019 - Mar 2020

- Taught classes of 15+ curious underprivileged children filmmaking using phone cameras and simple editing software fostering technical skills and presentation confidence.