Rhishabh Hattarki

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EDUCATION

M.S. Software Engineering   Aug 2022 - May 2024
Arizona State University, Tempe, AZ   4.0/4.0 GPA

B.E. Computer Engineering   Aug 2016 - May 2020
Savitribai Phule Pune University, Pune, India   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
Tools, Databases, and OS: PostgreSQL, MySQL, Git, GitHub, Windows, macOS, Linux/Unix, Spring, Spring Boot, Django
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
- Built a configuration management microservice with 13 REST APIs as part of an Escrow System using Spring Boot, Hibernate, PostgreSQL that made the existing system scalable.
- Redesigned and implemented the front end for the configuration service previously mentioned using React.js and React-d3-tree to improve its aesthetics and user experience.
- Mentored 5 interns as their tech lead to redesign a vault (virtual wallet) management frontend using React.js; guided them through environment setup, project structure, design and issues.

Mithi Software Technologies, Pune, India: Trainee Software Engineer   Jan 2020 - Jan 2021
- Implemented salted hashing authentication and RSA encryption plugins for the login system using a PHP framework called Roundcube to improve the security by acting as a 2nd layer of protection of their product, Skyconnect.
- Fixed 5 security bugs and built new features across multiple services in Java, Python and Javascript.

Apace Apparels and Equipment, Pune, India: Intern   Jun 2019 - Jul 2019
- Converted the existing inventory management system created in Google Sheets to a web application using Vue.js, PHP and MySQL to separate the inventory data from its view that enhanced the privacy of sensitive data.

ACADEMIC PROJECTS

Astah Clone for Class Diagram Creation, *Final Project for Software Design Course (ASU)*   Nov 2022 - Dec 2022
- Developed an Astah clone using Java and Swing libraries that allowed the creation of UML class diagrams by clicking on the creation panel.
- Implemented 2 parsing features - code generation based on the class diagrams present and class diagram creation based on the code written in the code panel.
- Allowed 3 types of connections - association, composition and inheritance and supported features - Saving a current diagram in a file and loading a pre-existing diagram from a file.
- Applied 5 Java Design Patterns - Decorator, Observer, Chain of responsibility, Strategy and Singleton along with 2 Architecture patterns - model-view-controller and blackboard to improve maintainability.

Real-Time Intrusion Detection System for IoT Networks using Random Forest, *Final Year Project (SPPU)* Aug 2019 - May 2020
- Led a team of 4 to build a full-stack web application using React.js front end and Django back end to detect 5 cyber attacks in a dummy IoT network.
- Set up the IoT network consisting of a node (consisting of 3 devices - Arduino UNO, Node MCU, and Ultrasonic sensor) and an Apache server.
- Integrated web sockets for real-time communication between the Apache server and Django backend with the capacity of handling 10,000+ records.
- Demonstrated 5 attacks detected in the network.

EXTRACURRICULAR EXPERIENCE

Open Links Foundation, Pune, India: Volunteer Teacher   Jul 2019 - Mar 2020
- Taught filmmaking using phone cameras and simple editing software to classes of 15+ underprivileged children to help them gain technical knowledge and build confidence during presentations.