ANDREW HOESCHEN

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EDUCATION

Saint Cloud State University, Saint Cloud, MN
Bachelor of Science in Computer Science, May 2021   GPA: 3.31
- One of three students awarded the Monte Johnson Computer Science Scholarship for academic achievement in 2019
- Earned a qualifying GPA for the Dean's List during three semesters

Skills

Spring, Java, MySQL, C++, Software design patterns, Object-oriented design principles

EXPERIENCE

Software Engineer
Tata Consultancy Services, 2021-Present
- Completed instructor-led training on core Java, Spring, and Spring Boot. Specific emphasis was placed on learning web controllers, REST, and MySQL functionalities for websites.

PROJECTS

Full-Stack Personal Website Using Spring Boot and Angular: hireandrew.click
Tata Consultancy Services, Winter 2022
- Serves as a live demonstration of my skills as a web developer. Hosts two full-stack projects as well as a detailed description of my RSA-OAEP project.
  - **Storefront**
    - Designed to mimic a production online retailer. Uses a Spring backend, with full persistence through a Spring JPA backed MySQL database, to support an Angular frontend. Frontend uses a web of services to ensure data is synchronized and current across all components.
  - **Secure Login**
    - Implemented a user account system using Spring Security and Angular. User passwords are encrypted and stored using a Spring JPA backed MySQL database. Registration process uses frontend and backend validation. Frontend validation uses Angular services to power backend queries for username and email uniqueness.

Contact Management System Using Spring Boot and a REST API
Tata Consultancy Services, Fall 2021
- Designed and implemented an online contact management system using Spring Boot. A REST API was used to bridge between a front-facing UI and a persistent, MySQL database. Dynamic elements included an editable, always-current list of contacts built using session attributes and JSTL.

RSA Optimal Asymmetric Encryption Padding (OAEP)
Saint Cloud State University, Spring 2021
- Used the public-key cryptography standards (PKCS #1) to implement the RSA OAEP encryption scheme from the ground up. Implemented and integrated a hashing algorithm, padding scheme, and encryption.
- **Repository:** github.com/ah90308853/RSAES-OAEP