

# Hana Dinh

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## SKILLS

**Languages:** Java, Python, C/C++, JavaScript, TypeScript, SQL, R, HTML/CSS, Bash, Scala

**SWE Tools:** React, Angular, GraphQL, Spring Boot, OracleDB, PostgreSQL, MongoDB, Docker, Microsoft Azure, GCP, CircleCI, NodeJS, Splunk, Express.js, jQuery, Spark, GDB

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## EDUCATION

**Lehigh University - B.S. Honors in Computer Science & Business**

Aug 2020 - May 2024

*Minors: Data Science, FinTech; GPA: 3.91*

*Bethlehem, PA*

**Awards:** Trustee's Scholarship (Lehigh's most prestigious merit-based scholarship), Dean's List (All Semesters)

**Coursework:** Data Structures, Design & Analysis of Algorithms, Operating Systems, SWE, Database Systems, Web Systems, Computer Architecture, Systems Software, Data Science, Statistical Computing, Machine Learning

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## WORK EXPERIENCE

**Software Engineer Intern**

May 2023 - Aug 2023

*Intuit Credit Karma*

*Charlotte, NC*

- Migrated 3 high-traffic (300k calls/week) debit card endpoints to a new backend microservice in a GraphQL service using Apollo, React, and TypeScript, achieving a 50% reduction in response time
- Ensured seamless deployment by implementing feature flags, GraphQL mock responses, comprehensive testing (unit, integration, and end-to-end) with Jest, Cypress, and Docker, and event monitoring on Splunk
- Built an email notification service within the debit card backend microservice using Scala and Java Spring Boot
- Collaborated closely with cross-functional teams to enhance checking/savings account user-facing features within the CK app via iterative bug fixes, contributing to a 20% increase in user engagement

**Teaching Assistant & Grader**

Aug 2021 - Present

*CS & Engineering Department, Lehigh University*

*Bethlehem, PA*

- Host office hours, assist with grading, and provide feedback on coursework & assignments ~16 hours/week
  - Courses: Data Structures, Discrete Structures & Algorithms, Computer Architecture, Systems Software, Databases, Web Systems Programming, Programming Languages, Intro. to Programming, and Linear Methods
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## PROJECTS

**Sales Wizard - Capstone Project at Vistacom Inc.**

Jan 2023 - Dec 2023

- Developed a service-oriented opportunity management system for Vistacom's sales team, integrating with Microsoft CRM and Sharepoint while leveraging MongoDB for scalable data management
- Facilitated site parameter collection by building a freehand drawing tool and a voice recognition tool with Angular, TypeScript, and Fabric.js and leveraging JSReport' RESTful API to generate PDFs
- Collaborated with 2 teammates to craft an interactive user guide and admin page enriched with user access controls

**Residential Data Management App**

Jan 2022 - May 2022

- Implemented a residential data management application for tenants, property managers, and business managers
  - Designed a relational database in OracleDB and automated the generation of 10k+ mock data instances in Java
  - Developed user interfaces with the ability to create, retrieve, update, and remove data using object-oriented design principles, PL/SQL triggers, functions, and procedures via Java Database Connectivity (JDBC)
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## LEADERSHIP

**CSB Course Flowchart - Project Manager**

Jan 2023 - May 2023

- Led 5 freshmen in building an interactive flowchart that serves ~200 students in the CSB program through developing a structured calendar and tutorials in HTML/CSS, Node.js, JavaScript, and JointJS library
- Fostered collaborative learning and equitable skill growth via weekly learning sessions and tailored mentorship