

## **OLIVER HALBERG**

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### **QUALIFICATIONS**

- Recent CS grad seeking entry level software engineering/software development role
- Solid foundational understanding of software development
- Eager to develop, configure, and maintain software applications to meet business needs
- Ability to analyze detailed specifications and technical requirements and develop and configure software applications
- Experience with programming languages, including Java and Python, and libraries such as React
- Basic understanding of database management concepts and SQL
- Basic understanding of cloud technology concepts
- Familiarity with the software development lifecycle
- Believer in the importance of quality documentation
- Excited to learn new technical skills

### **EDUCATION**

**VASSAR COLLEGE**, Poughkeepsie, NY

2020 - 2024

**B.A in Computer Science**

- GPA 3.95/4.0
- Graduated with Departmental and General Honors
- Extensive academic experience writing and troubleshooting code, primarily in Java and Python; some experience working with code in C, OCaml, and x86 Assembly
- Gained basic understanding of software development processes and technologies
- Used Agile methodology to analyze, develop, test and document a fully functional Android application
- Gained foundational understanding of computer organization and function

### **RELEVANT COURSEWORK/INDEPENDENT STUDY**

#### **Shape Quest (group project)**

- Analyzed technical requirements to create a detailed plan for the application
- Used Agile methodology to participate in the software development lifecycle
- Documented progress and instructions for users throughout project duration
- Used Java to develop and test a fully functional Android application

#### **Initiative Tracker (GUI version)**

- Used HTML, CSS, JavaScript, React, and Electron to develop a desktop application for use by players of tabletop role-playing games
- Used Electron Builder to package the application for cross-platform distribution
- Updated project to add features based on testing and user feedback

#### **Initiative Tracker (CLI version)**

- Used Java to develop and test a CLI application for personal use

## **EXPERIENCE**

**Project STEM (part-time)**, New York, New York (remote)

2025 - Present

### **Teaching Assistant**

- Assist in troubleshooting and debugging code in Java and Python
- Answer computer science questions submitted to online forums by students and teachers
- Escalate issues to technical support or curriculum staff as needed

**Vassar College**, Poughkeepsie, New York

2022 - 2024

### **Computer Science Department Coach**

- Coached computer science students on lab and homework assignments
- Organized and held regular office hours outside of the scheduled lab period to assist students
- Assisted with troubleshooting and debugging code in Java, C, and x86 Assembly
- Coordinated with professors and other coaches

## **SKILLS**

### **Coding**

- Java (Intermediate)
- Python (Intermediate)
- HTML (Intermediate)
- CSS (Beginner/Intermediate)
- JavaScript (Intermediate)
- C (Beginner)
- OCaml (Beginner/Intermediate)
- x86-64 Assembly (Beginner/Intermediate)
- SQL (Beginner)

### **Computer/Tech**

- Git (Intermediate)
- Unix Command Line (Bash and Zsh) (Intermediate)
- Bash shell scripting (Beginner/Intermediate)
- MacOS (Experienced)
- Linux (Intermediate)
- Node.js (Beginner/Intermediate)
- npm (Beginner/Intermediate)
- React.js (Intermediate)
- React Router (Intermediate)
- Express.js (Beginner/Intermediate)
- Electron.js (Beginner/Intermediate)
- Visual Studio Code (Intermediate)
- LaTeX (Beginner/Intermediate)
- REST APIs (Beginner)
- Pug (Beginner/Intermediate)
- SQLite (Beginner)
- Sequelize ORM (Beginner)
- Google Suite (Proficient)
- Adobe Photoshop (Experienced)
- Adobe Illustrator (Intermediate)
- Adobe InDesign (Experienced)