

# Wei Lu

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## EDUCATION

### Virginia Tech

Bachelor of Science in Computer Science, **GPA: 3.80/4.00**

**Expected Dec 2025**

Blacksburg, VA

## EXPERIENCE

### Software Engineer Intern

Investure

Jun 2025 – Present

Charlottesville, VA

- Built a multi-agent pipeline using the OpenAI API to extract structured data from financial documents with 99% accuracy, reducing processing time from hours to minutes and potentially replacing a costly third-party process.
- Developed a React UI for the pipeline, allowing analysts to upload documents and instantly view structured outputs, eliminating the need to send documents to third-party vendors.
- Optimized model prompts and used pytest with historical data to handle edge cases and ensure reliable extraction.
- Collaborated in an Agile environment, delivering improvements and incorporating feedback in weekly sprints.

### Undergraduate Teaching Assistant

Virginia Tech Department of Computer Science

May 2024 – Present

Blacksburg, VA

- Held weekly office hours to support 400+ students in Data Structures & Algorithms (Java) and Database Management Systems, answering questions on assignments, projects, and core concepts.
- Resolved 25+ questions each week, providing guidance on algorithm analysis, SQL query debugging, and project implementation to improve student understanding and performance.
- Collaborated with course instructors to address common misconceptions and recurring student challenges.

### Student Hiring Administrator

Virginia Tech Dining Services

Mar 2024 – Jun 2025

Blacksburg, VA

- Coordinated hiring with an 8-person team, processing applications for 1,000+ student employees each semester.
- Automated applicant processing with Microsoft Power Automate, reducing manual entry time by over 5 minutes per applicant and accelerating offer turnaround.

## PROJECTS

### HokieTracker | React, FastAPI, PostgreSQL

- Developed a real-time monitoring system that tracked Virginia Tech's course availability, detecting seat changes in under 3 seconds through optimized polling, eliminating the need for students to manually refresh course pages.
- Created a mobile-friendly UI with push notifications that alerted students the moment seats opened, allowing 6+ students to secure courses faster than paid alternatives.

### EduGrade | React, Express, Node.js, MySQL

- Built a centralized platform combining official grade distributions and anonymous reviews for 20,000+ courses, helping students make more informed scheduling and course planning decisions.
- Developed REST APIs for real-time data, full-text search, and filtering by course, instructor, and department.

### weiqu.dev | React, Material UI, Framer Motion

- Designed and deployed a portfolio with smooth animations to highlight projects and professional experience.

## TECHNICAL SKILLS

**Languages:** Python, Java, C, JavaScript/TypeScript, SQL, Kotlin

**Frameworks & Libraries:** React, Node.js, Express, FastAPI, Jest, Pytest

**Databases :** MySQL, PostgreSQL, SQL Server

**Developer Tools:** Git, Docker, AWS (RDS), Azure DevOps, Android Studio