

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
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EXPERIENCE

Software Engineer Intern Investure	Aug 2025 – Present Remote
Software Engineer Intern Investure	May 2025 – Aug 2025 Charlottesville, VA
Undergraduate Teaching Assistant Virginia Tech Department of Computer Science	May 2024 – Dec 2025 Blacksburg, VA
Student Hiring Administrator Virginia Tech Dining Services	Mar 2024 – May 2025 Blacksburg, VA

• Extended the LLM-based extraction pipeline with a multi-run validation framework to detect cross-field inconsistencies, surfacing errors earlier and improving data reliability.

• Designed a majority-vote reconciliation workflow with confirmation passes, resolving mismatches and raising accuracy from 92% to 99%, preparing the pipeline for production.

• Incorporated analyst feedback into the React UI, reducing document review time and improving usability.

• Built an AI-powered ETL pipeline in Python with OpenAI API, FastAPI, and SQLAlchemy, automating document extraction at 92% accuracy and cutting processing time from hours to minutes, saving \$70K+ per quarter.

• Developed a React upload portal to manage structured outputs, removing reliance on a third-party vendor.

• Optimized model prompts and used pytest with historical data to handle edge cases and ensure reliability.

• Collaborated in Agile sprints, delivering iterative improvements and incorporating feedback into the pipeline.

PROJECTS

HokieTracker React, FastAPI, PostgreSQL	
• Built a real-time course monitoring system detecting seat availability changes within 3 seconds, helping 12+ students secure high-demand classes faster than paid tools.	
• Designed mobile-friendly React UI with push notifications, replacing manual refreshes with instant seat alerts.	
EduGrade React, Express, Node.js, MySQL	
• Supported students in making more informed scheduling decisions by creating a centralized platform that combined official grade distributions with anonymous course reviews across 20,000+ courses.	
• Developed REST APIs for real-time data, full-text search, and filtering by course, instructor, and department.	

TECHNICAL SKILLS

Languages: Python, JavaScript/TypeScript, Java, SQL

Frameworks & Libraries: React, Node.js, FastAPI, Spring Boot, Express, SQLAlchemy, Jest, Pytest

Databases: PostgreSQL, MySQL, SQL Server

Tools: Linux, Git, Docker, AWS, Azure DevOps