

# Wei Lu

U.S. Citizen | [weiqu@vt.edu](mailto:weiqu@vt.edu) | [weiqu.dev](http://weiqu.dev) | [github.com/weiqu](https://github.com/weiqu) | [linkedin.com/in/weiqu](https://linkedin.com/in/weiqu) | (757) 761-7420

## EDUCATION

<b>Virginia Tech</b> Bachelor of Science in Computer Science, <b>GPA: 3.80/4.00</b>	<b>Expected Dec 2025</b> Blacksburg, VA
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## EXPERIENCE

<b>Software Engineer Intern</b> Investure	Aug 2025 – Present Remote
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- 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.

<b>Software Engineer Intern</b> Investure	May 2025 – Aug 2025 Charlottesville, VA
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- 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.

<b>Undergraduate Teaching Assistant</b> Virginia Tech Department of Computer Science	May 2024 – Dec 2025 Blacksburg, VA
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- Supported over 400 students in Data Structures & Algorithms (Java) and Database Management Systems through weekly office hours, answering questions on assignments, projects, and core concepts.
- Addressed 25+ weekly questions on algorithm design, SQL debugging, and project implementation, improving comprehension and course performance.

<b>Student Hiring Administrator</b> Virginia Tech Dining Services	Mar 2024 – May 2025 Blacksburg, VA
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- 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 5+ minutes per applicant and accelerating offer turnaround.

## PROJECTS

<b>HokieTracker</b>   React, FastAPI, PostgreSQL
<ul style="list-style-type: none"><li>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.</li><li>Designed mobile-friendly React UI with push notifications, replacing manual refreshes with instant seat alerts.</li></ul>

<b>EduGrade</b>   React, Express, Node.js, MySQL
<ul style="list-style-type: none"><li>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.</li><li>Developed REST APIs for real-time data, full-text search, and filtering by course, instructor, and department.</li></ul>

## 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