Wei Lu

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EDUCATION

Virginia Tech   **Expected Dec 2025**
Bachelor of Science in Computer Science, **GPA: 3.80/4.00**   Blacksburg, VA

EXPERIENCE

Software Engineer Intern   Aug 2025 – Present
Investure   Remote

- Extended the LLM-based document extraction pipeline by implementing a multi-run validation process that compares outputs across fields, ensuring consistency and detecting mismatches.
- Designed a majority-vote reconciliation workflow with confirmation passes for discrepancies, improving extraction accuracy from 92% to 99% and preparing the system for production deployment.
- Incorporated analyst feedback into the React UI, improving usability and reducing document review time.

Software Engineer Intern   May 2025 – Aug 2025
Investure   Charlottesville, VA

- Developed a Python-based multi-agent document extraction pipeline with the OpenAI API, achieving 92% accuracy and reducing processing time from hours to minutes, expecting to save $70K+ per quarter.
- Built a React UI for instant uploads and structured outputs, eliminating a third-party vendor dependency.
- Optimized model prompts and used pytest with historical data to handle edge cases and ensure reliable extraction.
- Collaborated in an Agile environment to deliver improvements and incorporate feedback in weekly sprints.

Undergraduate Teaching Assistant   May 2024 – Present
Virginia Tech Department of Computer Science   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+ weekly questions on algorithm design, SQL debugging, and project implementation, improving student comprehension and retention.

Student Hiring Administrator   Mar 2024 – May 2025
Virginia Tech Dining Services   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 5+ minutes per applicant and accelerating offer turnaround.

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, Java, C, JavaScript/TypeScript, SQL, Kotlin
Frameworks & Libraries: React, Node.js, Express, FastAPI, Jest, Pytest
Databases: MySQL, PostgreSQL, SQL Server
Tools: Git, Docker, AWS (RDS), Azure DevOps, Android Studio