

Jeremy Luu

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Education

Bachelor of Science in Computer Science, *University of Pittsburgh*

Apr 2026

- GPA: 4.00/4.00
- Coursework: Data Structures, Algorithms, Foundations of AI, Database Management Systems, Linear Algebra, Software QA, Web Applications, Discrete Structures

Professional Experience

Software Engineer Intern

May 2024 – Aug 2024

PNC Financial Services

Pittsburgh, PA

- Developed business process models using ARIS and BPMN language, providing data analysis of 2 enterprise-level processes for teams of 30+ enterprise architects and engineers.
- Automated cloud readiness assessments in Python, streamlining 50% of the previously manual process.
- Built cloud architecture diagrams with AWS and Azure services for scalable migration strategies.
- Authored documentation and comprehensive user-guides used by 10+ engineers for cloud migration, business process model making, and data formatting.

Cybersecurity Intern

May 2023 – Aug 2023

Comcast Corporation

Philadelphia, PA

- Validated data protection and data loss prevention on-premises and in the cloud for multiple sub-companies, resulting in action plans for audit findings and minimizing data breach occurrences.
- Conducted in-depth research and delivered presentations on AWS features (ECS, EKS, and Fargate) for future auditing procedures, enhancing audit readiness for a team of 15+ auditors and tech leads.
- Pioneered a feature for Xfinity's X1 app enabling parental controls for managing hotspot access.
- Lead the development of a customizable Excel calendar tailored to the quarterly audit timeline resulting in streamlined schedule management and saving ~15 hours per team member each quarter.

Part-Time Software Engineer Intern

Aug 2024 – Present

SunRay Drugs Pharmacy

Philadelphia, PA

- Engineered a lightweight pill counting device for precise counting and efficient collection into bottles to be used at 8+ store locations, reducing human error from repetitive counting tasks.
- Integrated a Python program with OpenCV and contour detection for real time visual pill counting.

Undergraduate Teaching Assistant

Jan 2024 – Present

School of Computing and Information, University of Pittsburgh

Pittsburgh, PA

- Facilitated understanding of core computer science topics such as Python, data structures, control flow, files, and image processing by holding weekly labs and presenting material to a section of 20+ students.

Projects

The Social Space

Tartan Hacks 2024 Project '24

- Graphically represented TikTok's social media algorithm with an interactive Three.js and WebGL 3d graph to use for sociological and marketing analysis.
- Scraped the data of 300,000+ TikTok videos to garner a well rounded view of the algorithm.
- Created a custom weighted graph data structure and a Flask API to connect to a React Force Graph.

SideQuest

SheInnovates Hackathon Project '23

- Created an iOS app with Swift that generates a random daily task to promote spontaneity and adventure.
- Developed profile and calendar components with SwiftUI to incorporate social networking functionality

Blink Buddy

Pitt CSC Hackathon Winner '23

- Developed a python application using OpenCV and Tkinter to remind the user to blink if blinks per minute drop below a threshold to encourage better health habits.
- Implemented a data storage system for seamless tracking of blinking data across work sessions.

Skills

Languages: Java, Python, C, C++, JavaScript, HTML, CSS, SQL, Swift, MIPS

Tools: Kubernetes, Docker, Amazon Web Services, Git, Pandas, Linux, Excel

Concepts: Artificial Intelligence, Agile, Audit, Business Process Models

Leadership: Computer Science Club Officer, SteelHacks XI Director, Symphony Orchestra Co-Concertmaster