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, Discrete Structures, Intro to Matrices & Linear Algebra, Software QA, Web Applications

Professional Experience

Software Engineer Intern   May 2024 – Aug 2024
PNC Financial Services   *Pittsburgh, PA*

- Developed models using ARIS and BPMN language for data analysis of 2 enterprise-level processes.
- Automated cloud readiness assessments using Python and PowerShell for cloud migration.
- Identified AWS/Azure services needed to create solution architecture diagrams for cloud migration.
- Created documentation 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 prem and in cloud for multiple sub-companies.
- Researched and presented on AWS features (ECS, EKS, and Fargate) for future auditing procedures.
- Pioneered a feature for Xfinity's X1 app enabling parental controls for managing hotspot access.
- Directed a project to create a dynamic calendar in Excel that tailors to the quarterly audit schedule and led meetings to gather feedback to ensure the deliverables met key requirements.

HCI Undergraduate Researcher   Sep 2023 – June 2024
Dr. Aakash Human Computer Interaction Lab   *Pittsburgh, PA*

- Developed a three-week curriculum on learning data competency using narrative-based learning approaches for 20+ young students in the Pittsburgh region.

Undergraduate Teaching Assistant   Jan 2024 – Present
School of Computing and Information, University of Pittsburgh   *Pittsburgh, PA*

- Coordinated and directed weekly labs for 20+ students to teach with Python.
- Created the exercises and class project curriculum to supplement learning.

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.

Pill Counter   *SunRay Drugs Pharmacy*

- Engineered a lightweight pill counting device for precise counting and efficient collection into bottles.
- Constructed a program using OpenCV and contour detection for real time pill counting to decrease human error from to large amounts of monotonous counting tasks.

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.
- Stores and tracks user's blinking data to be compared 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