Jeremy Luu

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Education

Bachelors 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 over 10 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.

@csc.at.pitt   *Pitt Computer Science Club Video Media Officer '24-25*
- Produced short videos using Adobe Premiere Pro, Photoshop, and videography, growing CSC's online presence from 400 to 10k+ followers, making it the most followed student organization with 70M+ views.
- Leveraged the social media following to invite and secure prominent computer science figureheads as speakers for the club, increasing club engagement within the university and on a national level.
- Provided consultation to other CS clubs around the country with upwards of 2k+ followers on the process of starting a social media presence, creating engaging content, and using statistical growth strategies.

Skills

Languages: Java, Python, C, C++, JavaScript, HTML, CSS, SQL, Swift, MIPS
Frameworks: React, Node.js, Flask, JUnit
Tools: Kubernetes, Docker, Amazon Web Services, Postgres, Git, Linux, Excel
Libraries: Pandas, PyTorch, OpenCV, NumPy, Matplotlib, scikit-learn
Concepts: Artificial Intelligence, Agile, Audit, Business Process Models