

Lauren Kam

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY

Expected May 2025

Bachelor of Science in Computer Science, Dyson Business Minor, **GPA: 3.95**

Engineering Dean's List (all years), Cornell Tradition Fellow ('21-'22)

Selected Coursework: Intro Analysis of Algorithms • Functional Programming • Intro to Quantum Computing • Object Oriented Programming • Discrete Data Structures • Intro to Machine Learning • Probability and Statistics • Operating Systems

TECHNICAL SKILLS

Programming Languages: Java, Javascript, React, Python, OCaml, C++, C#, Typescript

Developer Tools: Git, GitHub, VS Code, Eclipse, Linux, Agile Methodology, Postman, Microsoft Office Suite

PROFESSIONAL EXPERIENCE

Software Engineer Intern, Microsoft, Redmond, WA

May-Aug 2024

- Designed, developed, and tested new features to boost the efficacy of the integration of Databricks into Microsoft Azure, providing customers the functionality they desire; ran internal bug-bashes to further ensure proper functionality
- Produced proof-of-concepts for alternative methods of secure authentication into Azure Databricks for Microsoft's SFI

Software Engineer Intern, NASA, Kennedy Space Center, FL

Aug-Dec 2023

- Developed functional black-box tests for Command-and-Control software (Class A, Human-Rated, Safety Critical) responsible for future Artemis mission launches, elevating test coverage by ~60%
- Created a robust testing environment by developing Linux command mocks and automating configuration requirements

Software Engineer [Machine Learning] Intern, Cisco Systems: Security & Trust, RTP, NC

May-Aug 2023

- Improved predictive models for log counts by ~40% by training new machine learning models using ARIMA and StateSpaceForecast (Splunk) algorithms and methodically adjusting parameters
- Designed and developed detection-and-response plays for use in build environment security efforts
- Presented project work to 200+ technical experts throughout Cisco

Software Engineer [Data Science] Intern, Cisco Systems: Security & Trust, Remote

May-Aug 2022

- Automated the company's attack surface management process by writing a Python script leveraging Wiz.io and JupiterOne's APIs
- Parsed through and consolidated the Big Data in Splunk for attribution purposes (200k+ rows, 150+ columns)
- Evaluated the feasibility and added value of implementing Wiz.io into existing Next Gen Triaging processes

Software Engineer Intern, Lockheed Martin, Moorestown, NJ

Jun-Aug 2021

- Developed new programs to increase functionality of the simulation for the AEGIS Anti-Missile Defense program, a multi-billion-dollar effort for the US Navy
- Led lab test runs to identify issues in projectile software, participated in daily scrum meetings with team of seven engineers

Cybersecurity Intern, Lockheed Martin, Remote

Jun-Jul 2020

- Researched new uses of Blockchain technology to secure the transfer of data in the classified system engineering process
- Designed a packet-sniffing exercise for future cybersecurity interns with the potential of training 12+ future interns

LEADERSHIP EXPERIENCE

Software Lead, Cornell Electric Vehicles Project Team, Ithaca, NY

Oct 2021-present

- Recruit/develop a team of 12 engineers, delegate responsibilities, and manage 6+ projects per semester
 - Incoming Full Team Lead – Responsible for 80+ engineers and overall team performance
- Develop mission critical telemetry software for analyzing competition data using real-time web and app dashboards
- Compete in the annual Shell Eco-Marathon; overall goal of creating the most energy-efficient autonomous electric vehicle

RELEVANT ACADEMIC PROJECTS

Wordle Variation Solver (Python), AI Practicum, Cornell University

Jan-May 2024

- Created bots to solve Wordle variations, including Quordle and Quantum Wordle
 - Quantum Wordle bots had never been attempted; we reached a ~60% win rate and an average of 8 required # of turns

ACTIVITIES

Cornell Symphony Orchestra (Violist + Board Leader), Women in Computing at Cornell (Active Member), Society of Women Engineers, Women in Cybersecurity (WiCyS) – Scholarship Recipient, Association of Computer Science Undergraduates