Keon Lee

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Education

Queen's University — Expected May 2026
Bachelor of Applied Science, Engineering Physics and Computing — *Kingston, Ontario*
- **Awards:** Excellence Scholarship; Dean's Honours List, (2022-2024 Academic Year) – **CGPA: 3.6**
- **Relevant Coursework:** Data Structures and Algorithms (C), Intro to CS I/II with OOP (C/Java), Fundamentals of Software Development (C++), Computer Architecture (VHDL/ASML), Computational Data Analysis (Python)

Experience

Smith Engineering — Sept 2024 – Present
Undergraduate Teaching Assistant — *Kingston, Ontario*
- Instructed students on C development, covering efficient algorithms, syntax, and debugging techniques.
- Supervised a body of 800 students through assisted lab periods and grading code to enhance learning outcomes.
- Applied leadership skills during help desk sessions by guiding students through the troubleshooting processes and fostering collaboration to resolve technical issues.

City of Toronto — May 2024 – Aug 2024
Computer Lab Attendant — *Toronto, Ontario*
- Troubleshoot malfunctions of hardware and software applications to determine appropriate actions to maintain computer lab operations for over 20 computers.
- Resolved technical inquiries from patrons and de-escalated situations using customer service expertise.
- Attend meetings with upper management and stakeholders to provide customer feedback and recommendations to improve the customer experience in the lab.

Bell Canada — May 2023 – Aug 2023
Network Technician — *Toronto, Ontario*
- Performed preventative maintenance and decommissioning on Bell's copper cable network, testing network electronics and writing performance reports for over 20% of network switches in Toronto.
- Troubleshoot problems with existing network components, and recommended new solutions to senior technicians.
- Consulted senior technicians to learn new skills and constantly asked questions to further improve my work.

Projects

Personal Website: keonlee.com {for additional information and projects}

QMIND AI Club | Link | *Python, IBM Qiskit, Network Sockets, SSH*
- Deployed quantum encryption algorithm with Qiskit to solve future cyberattacks on AES through Python3.
- Produce Python scripts for connecting 3 VMs using network sockets and assisted with a terminal interface showing all network activity and possible cyber threats.
- Utilized MITM attack software on Kali Linux to simulate a network intrusion of the encryption protocol and test the encryption performance, showing a success rate of >95%.
- Co-authored a research paper and presented findings to 320 delegates at an artificial intelligence conference.

Queen's Hyperloop Design Team | Link | *JavaScript, Bootstrap5, Flask*
- Coordinated the design and deployment of a data visualization web application for displaying vital information.
- Self-taught Bootstrap to enhance user experience and improve interface usability.
- Presented final design to stakeholders and team executives for further implementation.

Hockey Expected Goal Modelling | Link | *Python, NumPy, Pandas, MatplotLib, Scikit-Learn*
- Developed a data visualization dashboard to classify the probability of shots resulting in goals using Logistic Regression achieving 90% accuracy.
- Displays vital information graphically and numerically using Matplotlib tools.

Skills Summary

Languages: Python, Java, C/C++, JavaScript, MySQL, VHDL, Git
Frameworks/Libraries: React.js, Node.js, BootStrap, Pandas, NumPy, Scikit-Learn, MatplotLib
Tools: Power BI, Jira, Confluence, Github, Microsoft Office, Visual Studio, Linux CLI Environment
Knowledge: Agile and Scrum Methodologies, Object-Oriented Programming, Relational Databases, Shell Scripting
Interest: Enjoy playing hockey competitively, playing ultimate frisbee, working out with friends, and trying new foods.