Nicholas Leung

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Technical Skills

Languages

 $\mathsf{C}\text{++}\cdot\mathsf{C}\cdot\mathsf{Objective}\text{-}\mathsf{C}\cdot\mathsf{Python}\cdot\mathsf{Java}\cdot\mathsf{JavaScript}\cdot\mathsf{SQL}$

Tools & Frameworks

 $\mathsf{Bash} \cdot \mathsf{Git} \cdot \mathsf{Docker} \cdot \mathsf{Node.js} \cdot \mathsf{React} \cdot \mathsf{React} \, \mathsf{Native} \cdot \mathsf{PyTorch}$

Professional Experience

ASML

Software Design Engineer \cdot Wilton, CT

- Developed driver middleware for the next-generation EUV reticle stage assembly
- Improved a diagnostic application for low-level subsystem control to support cross-team integration efforts
- Increased test coverage and code cleanliness to resolve 1000+ legacy software quality violations

NETINT Technologies

Test Engineer · Markham, ON

- Extended the internal test suite to include new features of the hardware video transcoder and prevent regression errors
- Created a CLI utility to perform parallel firmware upgrades, reducing customer installation times by over 50%

ASML

Software Engineer \cdot Wilton, CT

- Developed a preprocessing tool that determines minimal build-scopes for faster compilation
- Optimized graph generation by constructing a static lookup table of binary-level dependencies

Education

University of Toronto Sep 2016 – Apr 2021 B.A.Sc. Electrical & Computer Engineering with Honours · Toronto, ON **Projects** Soundboard 2023 Created an iOS application using UIKit that conveniently records and replays short sound bites Conducted alpha and beta testing via TestFlight before launching on the App Store SpeechBubble 2020 - 2021Developed a mobile application that isolates audio of interest in a noisy environment (cocktail party effect) • Architected the backend infrastructure using Express.js and Node.js to service client requests and manage user data Received Certificate of Distinction and 2021 Administrators Award **Cloud Storage Service** 2021 Designed a distributed NoSQL database that provides replication and a notification system Automated CAPTCHA Solver 2021 Built a deep learning model that uses image segmentation and optical character recognition to bypass CAPTCHA tests Certifications 2022

AWS Certified Cloud Practitioner
IEEE Hardware Certification

Jun 2021 – Aug 2023

May 2019 – Aug 2020

Jun 2018 – Jul 2018

2019