

Karl Stencell

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Professional Experience

Software Developer
Arctic Wolf

May 2023 – Present
Waterloo, Ontario, Canada

- Spearhead the design, development, and maintenance of an automated testing pipeline, ensuring seamless, reliable updates to >40,000 devices worldwide.
- Lead as 'Security Champion', auditing new systems for vulnerabilities and ensuring compliance with security standards.
- Engineered a Python library for automated testing, interfacing with BIOS UI menus over serial connections to validate low-level system configurations on remote devices.

Global Technical Operations Specialist
Arctic Wolf

Aug 2022 – May 2023
Waterloo, Ontario, Canada

- Collaborated with R&D to drive software and infrastructure enhancements for clients impacted by security breaches.
- Orchestrated cross-functional teams to ensure product alignment with client needs, driving successful outcomes across security, product, and customer success teams.
- Automated the identification of exploited attack vectors via network packet analysis, enabling security engineers to deploy rapid, targeted remediations, minimizing client impact.

Software Developer
SMART Centre

May 2022 – Aug 2022
Cambridge, Ontario, Canada

- Led a team of three developers, driving graph database research for supply chain industry partners and delivering presentations on quantitative tech innovations and business impact.
- Pioneered an alternative to touchscreen interfaces using smartphone cameras and image processing, transforming standard TVs into adaptable touchscreens.
- Mentored computer science co-op students on research projects, including SIMIO simulation, RFID-based inventory systems, and Neo4j graph database solutions.

Projects

Market Mash

- Built a website that gamified comparing the market cap of the largest companies in the world to testing how well you know the Fortune 500.
- Designed with a microsystem architecture approach with containerized system components allowing for dynamic scaling to reduce bottlenecks.
- Built with React, PHP, Python, Nginx, MongoDB, and Docker

Guitar Practice

- Built and launched an iOS app that generated chord progressions with randomized finger positions along the guitar fretboard allowing users to instantly jump into a challenging yet musically coherent practice session.
- Peaked at #22 on the Apple App Store for music apps in Canada.
- Built with Swift

Education

Conestoga College, Waterloo, Ontario
Bachelor of Computer Science

Dec 2023

University of Guelph, Guelph, Ontario
Bachelor of Science (Honours) Theoretical Physics

Jun 2019

Skills

Core: Linux/UNIX, Git, CI/CD, Docker, Kubernetes, Unit/System Testing, Networking, Object-Oriented Programming, agile, and DevOps

Languages/Frameworks: Python, Javascript, Typescript, React, Next.js, HTML, CSS, Java, C, C++, C#, and Bash/Shell

Cloud: Amazon Web Services (Cloud Practitioner Certified), Google Cloud Platform, Microsoft Azure, Netlify, and Vercel

Databases: MySQL, Microsoft SQL, MariaDB, PostgreSQL, MongoDB, DynamoDB, Amazon Neptune, and Neo4j

Team/Personal: Jira, Slack, Trello, Confluence, Effective Communication, Efficient Time Management, Enthusiastic, and Self-Reliant