

# ANGEL SINGH

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## Summary

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Software engineer with a Computer Science degree specializing in Software Systems; a self-motivated, avid learner always looking to improve and expand my skill set in software development and deliver high-quality results.

## Skills

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**Languages:** C++ | Java | Swift | JavaScript | Python | Kotlin | C

**Web Development / Networking:** HTML | CSS | React | Node.js | HTTP | TCP/IP | UDP

**Other:** Git | Jira | Xcode | Android Studio | Qt Creator | Linux | Kali Linux | Burp Suite | Windows | macOS | MySQL | Scrum | Kanban

## Experience

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### Systems Engineer

### Avigilon

08/2016 - 05/2017 | Vancouver, BC

- Performed a series of verification tests on company products to identify performance bottlenecks and ensure functionality is as expected
- Designed high and low-level test plans targeting specific performance bottlenecks, hardware limitations, and network constraints
- Collaborated within a team to implement product design changes based on test results, resulting in substantial improvements of product functionality by 20%-60%
- Created concise technical documentation of test results and delivered clear presentations to management resulting in informed decision-making

## Projects

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### Windows Bluetooth LE Widget | Personal

- Developed a Windows widget using Qt Creator and Qt Design Studio to scan for Bluetooth Low Energy (LE) devices and return their characteristics
- Programmed in C++ and appropriate design patterns were implemented to ensure modularity and maintainability
- Designed an intuitive graphical user interface (GUI) which allows users to start or stop a scan, view found devices, or quit application

### Android Weather App | Personal

- Developed an Android weather app using Kotlin which allows users to use their location or search for a city to get the corresponding current weather
- Obtained weather updates via REST API calls using Retrofit 2 to retrieve and parse JSON
- Utilized the Resource Manager to import and configure custom icons, backgrounds, and vector images which dynamically adjust based on the weather conditions to create a visually pleasing user interface (UI)

### Cybersecurity Script Bundle | Personal (Ongoing)

- Developing and expanding a collection of Python-based cybersecurity projects utilizing the Kali Linux environment
- Currently created scripts covering the areas of ARP spoofing, DNS spoofing, MAC address changing, network scanning, and packet sniffing, showcasing ongoing progress in offensive security techniques and network exploration
- Acquired proficiency in Python programming through hands-on development and problem-solving in the cybersecurity domain

## Education

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### Bachelor of Science

Simon Fraser University, Canada

Graduation: 09/2019

- Major in Software Systems, Computer Science

## Certifications

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**Data Structures + Algorithms Course** | *Zero to Mastery* | 2022