

# Farhoud Talebi

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## EXPERIENCE

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### **Collins Aerospace, Sr. Analyst, Software Engineer** • C#, .NET, C++, JavaScript, HTML, Python, Waveforms

Dec 2022 – Present

- Implemented NATO STANAG 4358 3G protocol standards in radio codebase, optimizing bit/byte manipulation and packet formatting while maintaining backward compatibility.
- Architected and developed a full-stack web application (JavaScript/Python) that automated radio configuration and testing, reducing engineering time by 30%.
- Engineered critical C++ 3G/4G radio features compliant with universal specifications, resulting in successful field deployments across multiple platforms.
- Designed and implemented CI/automated C# testing pipelines that streamlined the development lifecycle, reduced system downtime by 25%, and accelerated bug resolution.
- Created an internal tool for automated release artifact generation that was adopted company-wide, saving 10+ hours per release cycle.

### **Fortinet, Mobile App Team, Mobile iOS Developer** • Swift, C++, Objective-C, YAML, SQL

May 2022 – Dec 2022

- Spearheaded iOS development for an enterprise chat application, delivering full-stack features in Swift, C++, and Objective-C with seamless backend integration (ejabberd, MVC).
- Designed and implemented core iOS group chat functionality (invites, user management, room interactions) that accelerated product release and increased user engagement by 40%.

### **Kinaxis, Query Engine, Back End Technologies Engineer** • C++, C#, SQL, .NET

Jan 2022 – May 2022

- Diagnosed and resolved critical customer-reported issues in the RapidResponse platform, achieving 95% customer satisfaction rating.
- Led backend development initiatives (.NET, C++) that integrated cloud logging services, improving system performance by 35% and enhancing platform stability.

### **Electronic Arts (EA), FIFA team, Software Engineer** • C++, XML, ActionScript, Perforce, JaaS

Sep 2020 – Apr 2021

- Enhanced FIFA21/FIFA22 gameplay through feature implementation and defect resolution across multiple platforms (Gen4/5, Stadia, PC).
- Orchestrated biweekly content updates and patch deployments for FIFA Ultimate Team, ensuring seamless integration of new card packs and maintaining platform stability for millions of users.

### **Solace, Infrastructure team, Software Developer** • C++, Python, PERL, Docker

May 2019 – Sep 2019

- Identified and resolved complex bugs in the C++/Python codebase, contributing to a successful on-time bi-annual release.
- Mastered PERL to develop cross-compatibility solutions between physical servers and Docker environments, reducing deployment times by 20%.

### **Department of National Defence, RFID team, Software Engineer** • Visual Basic, SQL, HTML

May 2015 – Sep 2015

- Designed and implemented a secure RFID module for mission-critical shipping tracking and inventory management, reducing manual processing time by 65% and improving data accuracy.

## PROJECTS

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### **Remote Surveillance Security Research Tool** • C, Python, Linux, Kernel Modules, I/O Sockets

- Engineered a cybersecurity research platform that captures and securely transmits keyboard and audio input to a remote server with minimal system footprint, providing valuable insights into network security vulnerabilities and defensive countermeasures.
- Implemented low-level kernel module integration and encrypted socket communication protocols, enhancing technical understanding of advanced threat mitigation strategies.

### **MazeSolver Mobile App** • Swift, Java, Android Studio

- Architected a cross-platform mobile application implementing A\* pathfinding algorithm to dynamically solve user-generated maze configurations.
- Developed responsive UI with interactive grid functionality allowing users to define custom start points, destinations, and obstacles, demonstrating proficiency in mobile development across iOS and Android platforms.

### **Stock Scanner Financial Market Analysis Tool** • Python, Yahoo Finance API

- Designed and implemented an automated stock screening application that processes data from over 8,000 securities across US and Canadian exchanges.
- Engineered customizable filtering system using key financial metrics (P/E ratio, market cap, volume, technical indicators) to generate targeted watchlists compatible with TradingView, streamlining investment research workflows.

## EDUCATION

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### **Carleton University, Bachelor of Computer Science**

- *Honours, Security Specialization*
- *98% CGPA*
- ***Senate Medal Recipient (Top 3%)***

## MISCELLANEOUS

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- Possess Level 2 Secret Security Clearance & Enhanced Reliability Status
- Languages: English (native), Persian / Farsi (native), French (intermediate)