

# Joseph Champeau

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## TECHNICAL SKILLS

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**Languages:** Java, Python, C++, SQL, JavaScript, TypeScript, HTML/CSS

**Frameworks:** React, Node.js, Jest, JUnit, REST

## EXPERIENCE

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### IT Architect

May 2024 - Aug 2024

*Ornge Air Ambulance Corporation*

*Mississauga, ON*

- Assessed supplier software for efficiency and workflow integration, recommending an aircraft maintenance system that **reduced costs by 30%**
- Revamped SharePoint inventory by streamlining information architecture, retiring legacy apps, and enhancing search and management functionality
- Developed and deployed a Power Apps solution to automate inventory updates, implementing scalable workflows for long-term maintainability

### Embedded Software Engineer

Sep 2023 - Dec 2023

*Ford Motor Company*

*Kanata, ON*

- Implemented Smart Hitch feature in C++ with CAN bus, optimizing payload and preventing overhauls across all Ford trucks to serve **millions of drivers**
- Spearheaded telemetry project to capture customer usage data from **30% of infotainment features** using React.js, enabling efficient allocation of development resources
- Resolved **10+ production bugs**, reducing Smart Hitch **load time by 20%** and improving responsiveness
- Extended automated testing of dashboard video games using Jest, increasing **code coverage by 90%**

### Front End Software Developer

Jan 2023 – April 2023

*Ford Motor Company*

*Kanata, ON*

- Worked on the dashboard infotainment team to ensure UI functionality **across 15+ languages**, implementing fixes in HTML + CSS to deliver smooth content display to a global audience
- Contributed to the data restructuring of major dashboard UI features using React.js, collaborating with engineers across a large embedded systems code base and **accelerating performance by 20%**

### Junior Software Developer

May 2022 – Aug 2022

*Immigration, Refugees, and Citizenship Canada*

*Ottawa, ON*

- Developed dynamic Power BI dashboards to measure workplace efficiency, establishing clear employee objectives
- Managed and tracked bugs and software access requests in Azure DevOps for **20+ government departments**

### Operations Control Center Assistant

May 2020 – Aug 2020

*Ornge Air Ambulance Corporation*

*Mississauga, ON*

- Used Cisco databases to develop an operational dashboard for call-taking and dispatch, enhancing real-time monitoring of critical data
- Developed a gamified testing system using Google Maps API to help new hires memorize Ontario air ambulance bases, leading to a **40% improvement in retention** and faster on-boarding

## PROJECTS

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### Asset Price Prediction with Machine Learning | *Python, Pandas, Numpy*

- Developed a stock price prediction model in Python, leveraging multiple linear regression to analyze S&P 500 prices based on economic indicators and stochastic oscillators
- Interpolated data to ensure a complete, time-aligned dataset, applying model assumption checks and comparing results with a decision tree model to validate accuracy
- Optimized model using mini-batch gradient descent, achieving a final relative accuracy of 99.53%

### Athletics Scheduling App | *Java, Android Studio, Cloud Firestore, Git*

- Created a fitness app using Java + Android Studio to help UOttawa students create and join exercise classes

## EDUCATION

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### University of Ottawa

Ottawa, ON

*Honours BSc in Computer Science, Management and Entrepreneurship Minor*

*Sep 2020 – May 2025*

### Interests

*Varsity Tennis Team Reserve, 500+ Duolingo streak in Chinese*