

# Ilker Hadzhalaran

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## Skills

### Frontend

Angular, WPF (.NET), JavaScript, TypeScript, HTML, CSS, RxJS, Bootstrap, Jasmine/Karma, XAML

### Backend

C#, ASP.NET Core (Entity Framework, ASP.NET Core Identity), NodeJS, ExpressJS, Firebase, Python, PHP, C++

### Database

MongoDB (& Mongoose), MySQL, PostgreSQL, MS SQL Server, Firebase Firestore

### DevOps & CI/CD

Jenkins, OpenShift, IBM uDeploy, TeamCity, Artifactory, Docker, SonarQube, Snyk, Blackduck, GitHub Actions, YAML, Azure

### Tools

Visual Studio, VS Code, NPM, NuGet, Git, GitHub, Atlassian Suite, Postman, Chrome DevTools, phpMyAdmin

## Education

McMaster University  
Bachelor of Technology in  
Automation Engineering (Co-op)  
Graduated Dec, 2020 | Hamilton, ON

### Co-op Work Completed

28 Months Full-time at 4 Companies

### Included

Certificate in Business Management

## Experience

### **Software Developer (Full-time) • Citigroup**

*Manager Testimonial*

*Velocity Team | Jul, 2022 – May, 2024 (1 yr 11 mo) | Mississauga, ON*

- Worked on sizeable enterprise codebase (310k+ lines) for a trading platform. Used Angular, WPF (C#, XAML, .NET), Caplin Liberator.
- Work included building new features (e.g. migrating legacy screens from WPF to Angular, creating UI components, updating trading calculations, AG Grid customizations), fixing bugs & debugging data flow issues, reducing technical debt, developing unit tests, and more.
- Led releases to production using TeamCity, IBM uDeploy, Jenkins and OpenShift. Coordinated with teams globally (e.g. QA, Support, BA, Development, Change Management, and more).
- Resolved time-sensitive issues, such as users' Support queries, production issues, dependency vulnerabilities, etc.

*OneBook Team | Jul, 2021 – Jun, 2022 (1 yr) | Mississauga, ON*

- Worked on a new book building platform using Angular, wrote tests in Jasmine/Karma, and interacted with data using MongoDB.
- Major Project: Created 2900+ line Angular feature to streamline process of updating user permissions. Business users can now use a GUI instead of having to ask developers to update data manually.
- Joined the team a few months before their first software release and completed 50+ improvements and bug fixes.

### **Software Developer Intern (4 months) • McMaster Manufacturing Research Institute**

*Manager Testimonial*

*May – Aug, 2020 | Hamilton, ON | See result at: [vimeo.com/450177340](https://vimeo.com/450177340)*

- Created data visualization, analytics, and test software for FANUC manufacturing machines in a Windows environment.
- Developed with MongoDB, ExpressJS, Angular, NodeJS (MEAN stack), FANUC's MT-Linki API, and third-party libraries.
- Designed app architecture, used Atlassian Suite workflows, and performed DevOps duties, including managing deployments.

### **Software Developer Intern (8 months) • Advanced Particle Tech.**

*Jan – Aug, 2019 | Waterloo, ON*

- Worked on developing a web app for helping users manage different versions of their 3D model files. Used MongoDB, ExpressJS, Angular, NodeJS (MEAN stack) in a Linux environment.
- Worked with third-party libraries to create features (e.g. PDF viewer).
- Contributed to various types of documentation (e.g. SRS document).

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## Education (Continued)

### Relevant University Courses

Object-Oriented Programming,  
Internet Technologies & Databases,  
Quality Control and Assurance,  
System Specification & Design,  
C++ Programming, Artificial  
Intelligence & Machine Learning

## Additional Skills

### Architecture &

### Codebase Management

REST API, State Management,  
MVC, MVVM, Dependency  
Management, Authentication,  
Data Structures & Algorithms

### Artificial Intelligence & Machine Learning

TensorFlow, Keras, NumPy,  
pandas, scikit-learn, Matplotlib,  
Conda, Anaconda Navigator,  
Jupyter Notebook, MATLAB

### Software Design, Diagrams & Requirements Analysis

Figma & InVision Mockups,  
Enterprise Architect design tool,  
SRS Documentation, project  
requirements, cost estimation,  
UML Diagrams (e.g. Use Case,  
Activity, Sequence, Affinity,  
Class, State Machine, etc.)

### Libraries

AG Grid, SignalR/websockets,  
PDF Viewer, Cron Jobs,  
Nodemailer, dotenv, Pkg

### Other

Linux & Windows Environments,  
Unity Game Engine, 3D Modelling  
(AutoCAD, SolidWorks)

## Experience (Continued)

### **Product Development Intern (4 + 8 months) • 3Dstream Inc**

*May – Aug, 2017 and Jan – Aug, 2018 | Hamilton, ON | [Testimonial](#)*

- Completed UI/UX design (Figma and InVision) for parts of a workflow management software for manufacturers that use 3D printers.
- Worked on HTML/CSS with frontend team.
- Turned customers' needs into software specifications.
- Created WordPress website and made HTML/CSS modifications.

## Personal Projects (More On GitHub)

### **QuickPass Password Manager** | [vimeo.com/381806818](https://vimeo.com/381806818)

- Designed and developed a fully responsive Angular-Firebase web app that helps a user manage their passwords.

### **MentorConnect: Networking App** | [vimeo.com/957525974](https://vimeo.com/957525974)

- Built a professional career development web app that helps connect mentors and mentees.
- Made with Angular, ASP.NET, MS SQL Server, and MS Azure.

### **Portfolio Manager (Hackathon)** | [vimeo.com/593492344](https://vimeo.com/593492344)

- Created an Angular-Springboot app that helps a user manage their financial portfolio, with real-time data from Yahoo Finance API.

### **BIT Data Analytics Web App for Manufacturing Machines** | [vimeo.com/450177340](https://vimeo.com/450177340)

- Architected and created an app that helps machine operators analyze data and configure tests for FANUC manufacturing machines.
- MongoDB, ExpressJS, Angular, NodeJS, and FANUC's MT-Linki API.

### **Capstone Project: Virtual Reality (VR) Tour of a University Lab** | [vimeo.com/495898892](https://vimeo.com/495898892)

- An app that lets the user explore the equipment and machines in McMaster University's Learning Factory in a 3D environment.
- Made with Unity game engine and Angular.

**View all 14 projects at:** [ilker-h.com/#projects](https://ilker-h.com/#projects)

**Video walkthroughs of projects:** [vimeo.com/channels/1525169](https://vimeo.com/channels/1525169)

## Online Courses & Certificates

- **Citigroup: Engineering Level 1 Technical Certification** (20 hr)
  - Topics: Cloud architecture, Docker and internal DevOps tools
- **ASP.NET Core & Angular** by Neil Cummings (35 hr) – [Certificate](#)
- **Angular** by Maximilian Schwarzmüller (28 hr) – [Certificate](#)
- **MEAN Stack (MongoDB, ExpressJS, Angular, NodeJS)** by Maximilian Schwarzmüller (12.5 hr) – [Certificate](#)
- **WPF** by Mark Watkins (13 hr) – [Certificate](#)