




# TAHSIN MAZUMDAR

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 <https://tmazumdar.github.io/>

## AREAS OF EXPERTISE

- Frontend Development
- Object Oriented Programming
- Relational data-modelling
- Data visualization
- A/B Testing
- CI/CD Task Automation
- Leading by example
- Code Reviews
- Mentoring
- Project Management

## PROGRAMMING TOOLS EXPERIENCE

### Frontend:

JavaScript, AngularJS, React, Electron,  
CSS, HTML, GraphQL, TypeScript

### Backend:

C#, WCF, EntityFramework, LINQ, .NET  
Core, .NET 5+, SQL, NodeJS, Python,  
CassandraDB, REST API

### Familiar Tools:

Git, Azure DevOps, Jenkins, Octopus  
Deploy, IIS, AWS EC2, GitHub Actions,  
Amazon Redshift, Figma, Storybook,  
Swagger, Splunk, Bunsen, Beaker, Jira,  
Confluence, Excel

### Application/Unit Testing:

React Testing Library, Pytest, MSTest

## PROFESSIONAL EXPERIENCE

### Senior Software Engineer

Yelp | San Francisco, California, USA (Remote) | Aug 2021 - Jan 2024

<https://www.yelp.com/>

- Led initiative to analyze user activity metrics (e.g. page views, clicks) on Yelp's website
- Created dashboards to monitor traffic from A/B experiment cohorts using Splunk, SQL, RedShift clusters
- Architected a new purchase flow on Yelp, which projected \$2M+ in revenue through new subscribers of paid ad products - using React, JS, GraphQL
- Backend development & debugging experience with Python micro-services, updating REST API endpoints, updating pypi package dependencies to mitigate security vulnerabilities
- Experience writing unit tests in frontend using RTL, in Python services using pytest and tox
- Mentored junior engineers with code reviews and 1-on-1s

### Senior Programmer Analyst

MAK Consulting Group | Brantford, Ontario, Canada | Jun 2016 - Jul 2021

<https://www.makcg.com/>

- Early-stage engineer at a startup developing a manufacturing execution system (MES) for Nestle using .NET/C# and AngularJS framework, which saw a 24% increase of adoption rate per year in factories globally
- Backend development experience using Web API, EntityFramework 5, LINQ & SQL stored procedures
- Streamlined deployment process by automating CI/CD tasks using PowerShell scripts, created build & release pipelines in Azure DevOps
- Held training workshops, created tutorial videos & documentation outlining usage of Azure Cloud pipelines
- Travelled to client sites and provided technical support during install of MES software in Germany, Thailand and Mexico
- Experience with software-hardware interfaces between MES application and PLCs via OPC protocol and Kepware

### Software Engineer

CDK Global | Waterloo, Ontario, Canada | Jun 2012 - Apr 2016

<https://www.cdkglobal.com/>

- Led data integration project with BMW, which involved client communication, project coordination, software development, e2e testing and piloting go-live
- Experience building communication layer with .NET, C#, WCF and SOAP to facilitate XML based communication between services

## PERSONAL PROJECTS

### Ticker Tracker

Jan 2024 - Feb 2024

<https://github.com/tmazumdar/stocks>

A desktop app to track & plot stocks and ETFs. Written with Electron, React, Typescript, DaisyUI, TailwindCSS, ChartJS & Polygon API

## EDUCATION

### BASc, Electrical Engineering with Management Sciences option

University of Waterloo | Waterloo, ON | Jun 2012

Specialized in Digital and Multi-variable Control Systems, Digital Circuits, RF and Wireless, Information Systems Analysis and Design

## ADDITIONAL EXPERIENCE

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### AV Systems Engineer Intern

Analog Devices | 2011

- Performing compliance tests on Audio/Video receiver and transmitter devices
- Manual and automation testing firmware releases for rx/tx test boards
- Maintaining and releasing test plans/results on corporate sharepoint
- Debugging issues with test procedures for HDMI, CEC (Consumer Electronics Compliance), HDCP (Hi-band Digital Content Protection), ARC (Audio Return Channel) protocols

### Software Engineer Intern

Research In Motion | 2010

- Developing, debugging and testing BlackBerry Mobile Voice System (MVS) client software in proprietary Blackberry JDE
- Organizing and running scrum meetings in an agile software development environment
- Bug tracking, assigning to developers, verifying fixes and closing bugs

### Software Developer Intern

Fujifilm Canada | 2009

- Worked with line operators to design software used for printing photo mugs and t-shirts
- Developed applications for manufacturing line printers/machinery using C++
- SQL and Perl scripting for database to front-end integration

### Software Developer Intern

Ontario Teacher's Pension Plan | 2009

- Interned at OTPP's Risk IT team responsible for maintaining risk analytics software for teachers' pensions.
- Responsibilities involved troubleshooting SQL stored procedures in Oracle databases

### Software Developer Intern

Agriculture and Agri-Food Canada | 2008

- Assisted an agricultural scientist by programming applications for crop model simulation using Fortran and .NET

### Tutor

Freelance | Dhaka, Bangladesh | 2005 - 2007

- I was a private tutor for high school students and helped them with their school-work. I taught Physics, Mathematics, Chemistry, Biology and Economics