

DENIZA MALATAEVA

2B Computer Engineering University of Waterloo

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LANGUAGES //

C++
C#, Java
Python

JavaScript
XML, CSS (SASS)

C, Verilog, VHDL
ARM, MATLAB

FRAMEWORKS //

ASP.NET
React.js, Node.js

Express, WebSockets
AJAX, OAuth
WebGL, OpenGL

Selenium, Maven

SOFTWARE //

AWS
Google Cloud Services
Firebase, ElasticSearch

Git, SVN
JIRA, TFS, Zenhub

Quartus Altera, Keil uVision
Photoshop, Illustrator

INTERESTS //

- Full Stack Development
- Computer Graphics
- Industrial Design, Concept Art
- Cognitive Science, AI

VOLUNTEERING //

- ECE Class Representative (1B)
- UW Engineering Society Arts Director (2B)
- UW Engineering Society Software Workshops Director (2B)

WORK EXPERIENCE

ScribbleLive

Software Developer

Toronto, ON

May 2017 – Aug 2017

- Restructured **Node.js** and **.NET microservices** to introduce tag-searching capability into live-streams.
- Piped stream data into *collections* for easy integration with **AWS S3** and **ElasticSearch**.
- Extensively used **React.js** and **Moment.js** to create a back-end chat widget, providing a direct communication channel for live-stream editors and their readers.
- Introduced enter-to-post functionality into live-stream text editor, which incentivized more customers to migrate from legacy platform to new solution.
- Cultivated team-building for new team through sprint retrospective meetings and curated agendas based on past sprint experiences and future roadmap goals.

ScribbleLive

Software Testing Developer

Toronto, ON

Sept 2016 – Dec 2016

- Defined requirements with the QA team and spearheaded the automation project using **Selenium for Java** to reduce testing time by more than 30% in later sprint cycles.
- Rigorously monitored the Engage platform using **blackbox** and **whitebox testing**, **regression** and **integration testing** throughout Agile lifecycle stages.
- Improved regression workflow and documentation used by QA team on **TestRail Atlassian** to minimize time and effort costs.
- Gained valuable mentorship in microservices implementation using **websockets** and **React.js**, and case-based QA solutions to software products in the industry.

Genetec

Programming Analyst

Montreal, QC

Jan 2016 - Apr 2016

- Scripted customizations into **Dynamics CRM** software using **C#**, which accelerated CSM processes related to business logic and customer data.
- Cooperated with team members on various projects to fit the dynamically evolving needs of several company departments.
- Monitored and hot-fixed bugs to ensure successful deployment sessions.

PROJECT HIGHLIGHTS

Visualyrics // [Github](#) // JS (WebGL), Python, APIs – Watson IBM, Semantria, Genius

- Experimental implementation of machine learning in a web app which analyzes song lyrics in terms of sentiment, both quantity and magnitude.
- Users can guess songs and earn scores based on the graphical output.

EEG – Electroencephalograph Circuit //

- A digital circuit which reads voltage input from body electrodes and sends the filtered and amplified measurements to a laptop via audio port.
- The device can successfully measure alpha and beta waves emitted by the brain.

Sandbox // [Github](#) // JS, React.js, SASS, Firebase

- Simple and embeddable chat widget supporting customizations and multiple user conversations
- Hosted and built using Firebase's Real-time Database.

Brainiac // [Github](#) // Python, SmallBasic, Photoshop & Illustrator

- Fast-paced arcade-style game created for international students to learn four primary school subjects - Math, Chemistry, English and Computer Science.
- Thoroughly tested and approved by experts in subject fields, subsequently 'virally' uploaded onto desktops in schools' computer lab for maximum usage results.