

MARK ZUSCHLAG

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I am a developer who is passionate about building backend services in **Ruby** and **JavaScript**.

EXPERIENCE

MoxiWorks

Application Support Engineer

Seattle, WA

March 2018 - Present

- Collaborated with customer support, account managers, and engineers to solve technical challenges. Contributed over 40 documents towards the company encyclopedia explaining software systems to current and future colleagues.
- Studied company products and systems in-depth through regression testing. Built automation test suites to assist QA engineers in production deployments.
- Worked with senior engineers on designs to make existing software safer and easier to use. Implemented improvements and fixed bugs throughout the development process.
- Led seminars on computer science concepts and developer skills for the QA automation project. Contributed to the increased reusability and readability of the code base.
- Developed tools for other engineers and support to increase productivity. These tools provide friendly front-end interfaces while servicing data from the company databases.

The College of William & Mary Computer Science Laboratory

Laboratory Consultant

Williamsburg, VA

September 2014 - May 2015

- Reviewed students' code for flaws and errors. This ranged from small detailed syntax mistakes to large scale structural blunders.
- Mentored students in fundamental computer science concepts. Demonstrated computer science theories, from efficient algorithms to core data structures.

PROJECTS

Dash *JavaScript, NodeJS, PostgreSQL*

gitlab.com/mazuschlag/dash

A database query web application for MoxiWorks support

- Cooperated with colleagues to design a user friendly web application for querying the MoxiWorks database. Managed team communication to ensure product specifications were met.
- Designed and built a RESTful API for PostgreSQL database queries. Included error handling for unexpected routes and poor database queries. Utilized Git for version control.

Haskov *Haskell, GHCi*

github.com/mazuschlag/haskov

A Haskell library for building Markov chains

- Authored a library for constructing and testing Markov chains in the functional programming paradigm. Designed to be clean and abstracted for ease of use.
- Researched the math and utility of Markov chains in computing. Examined other Markov chain repositories and libraries. Tested various methods of creating Markov chains for optimization.

EDUCATION

The College of William & Mary

B.S. in Computer Science

Williamsburg, VA

August 2011 - May 2015