Tomer Aberbach

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Employment

Google *Mar. 2020 to Present*
Software Engineer
Java, JavaScript, HTML, CSS, Closure Template
- Working on the Google Docs Collaboration team as a full stack software engineer.
- Implementing novel features for Google Docs, Sheets, and Slides that enable seamless collaboration between users.

Mercer Street Friends *Aug. to Dec. 2019*
Full Stack Web Developer
Ruby, PostgreSQL, HTML, SCSS | Rails, SendGrid
- Implemented an MVC full stack web application with *Ruby on Rails* and *PostgreSQL* for the Trenton-based non-profit organization, Mercer Street Friends, to effectively manage its internal work order requests.
- Applied the principles of responsive web design to provide a pleasant user experience on desktop, tablet, and mobile devices.

Google *May to Aug. 2019*
Software Engineer
Java, JavaScript, HTML, CSS, Closure Templates
- Interned on the Google Sites team to develop a feedback feature for ensuring sites remain current.
- Built a fully asynchronous backend with *Java* and a modular frontend with a component-based *JavaScript* framework.
- Internationalized the existing email infrastructure by implementing proper text alignment for right-to-left languages.

The College of New Jersey (TCNJ) *June to July 2017*
Mentored Undergraduate Student Experience (MUSE) Researcher
Java, Python | Weka, SVM^{Light}, LIBSVM, scikit-learn, SLURM
- Collaborated with a student in a selective 8-week full-time undergraduate research program.
- Developed an automated machine learning curve analysis infrastructure in *Java* with support for pluggable classifiers.
- Implemented active learning stopping methods to train text classifiers with minimal training data in *Python*.

Education

The College of New Jersey (TCNJ) *Fall 2016 to Fall 2019*
BS Computer Science and Mathematics Minor
- **Cumulative GPA:** 3.91/4.0
- **Dean's List:** 7/7 Semesters
- **Honors:** Summa Cum Laude, UPE Honor Society
- **Relevant Courses:** Data Structures, Algorithms, Databases, Networking, Web Design, Advanced Browser Technologies, Computer Architecture, Operating Systems, Data Science, Cryptography, Linear Algebra, Graph Theory, Statistics, Linguistics

Projects

Jill Marbach's Portfolio Website and Blog *Feb. to Apr. 2020*
JavaScript, HTML, Markdown, CSS | Gatsby, React, Styled Components, Netlify CMS
- Implemented a portfolio website and blog, complete with a CMS and search, for a student at The College of New Jersey.
- Incorporated responsive typography and intrinsic web design to create a website with a dynamic feel.

Mano Basic Computer Assembler and Simulator *Oct. 2017 to Jan. 2018*
Java | JavaFX
- Developed, tested, and deployed an assembler and hardware simulator for the Mano Basic Computer, a 16-bit computer, complete with a user interface and documentation using *JavaFX*.
- Was adopted for regular academic use in a college-level computer architecture course.

Skills

Proficient: Kotlin, Java, JavaScript, TypeScript, HTML, CSS, SCSS, Ruby, C, Fish, LaTeX, Markdown, Regular Expressions

Familiar: Python, Haskell, Closure Templates, PostgreSQL, C++, C#, Handlebars, Jade, Bash

Tools, Libraries, Frameworks, & Runtimes: Git, Node.js, Rails, React, Gatsby, Rollup.js, Gulp.js, JavaFX, ANTLR, Bison, Flex

Expertise: Web Development, Asynchronous Programming, Programming Languages, Compilers, Music Theory

Native Languages: English, Hebrew