JACOB T. FREDERICKSEN

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PROFESSIONAL SUMMARY

Self-motivated full stack software developer with an affinity for big-picture thinking.

SKILLS

- Full stack web development—JavaScript, Typescript, Next.js, React.js, Node.js, Python, Django, RegEx, HTML, SCSS, CSS, etc.
- SQL (PostgreSQL, SQL Server, MySQL) and NoSQL (MongoDB, Firestore) database implementation and administration
- Automation using Python and shell scripting
- Technical and non-technical documentation
- Microsoft Excel (Pivot Tables, Solver, functions and formulas, debugging, formatting, importing/cleaning, etc.)
- Languages: English (native), Japanese (fluent/professional), Korean (intermediate)

EXPERIENCE

Freelance
Full Stack Software Engineer & App Founder

New York City, NY
2020–Present

- Designed, prototyped, developed, and deployed web applications for a new NPO (ModularHistory), a small business (KW Striping), and a personal project (SelfBuilder) using Next.js / React, TypeScript, GraphQL, MongoDB, PostgreSQL, Docker, Nginx, Python & Django, Elasticsearch, HTML, SCSS, etc. Implemented CI/CD workflows via GitHub Actions.
- Managed a team of six part-time engineers to prepare ModularHistory.com for launch; identified development priorities; created epics, stories, and tasks using Jira; and reviewed code changes.
- Designed/prototyped pages and components using tools including Figma, InVision, and Framer.
- Communicated regularly with stakeholders to understand their needs and attitudes, ensure project requirements were met, prioritize high-value features, and provide advice on tech-related initiatives.

Indeed
Software QA Engineer

Tokyo, Japan
2018–2020

- Reduced manual QA burden by automating functional tests for several of Indeed's co-branded websites, using Python and Selenium as well as JavaScript testing frameworks (TestCafe and Cypress).
- Developed QA tools, including a page-health-checking web crawler and an automatic performance-and-SEO regression tester, to improve product stability and mitigate risk.
- Identified UI/UX improvement opportunities based on intuition and mature UX research.
- Regularly facilitated weekly team planning meetings and dev meetings.
- Improved team velocity by suggesting process improvements and directly implementing improvements to Jenkins release/deploy pipelines, including implementing a hybrid Push on Green pipeline.
- Contributed heavily to technical documentation for QAEs and software engineers.

Brigham Young University
Instructor

Provo, UT
2018

- Taught "Spreadsheet Skills and Business Analysis" (IS 110) weekly and graded all assignments.

Teaching Assistant

2016–2017

- Assisted IS and business school professors with curriculum development, instruction, and grading of assignments for 7 courses: "Data Analytics and Machine Learning" (IS 415), "Quantitative Analysis" (EMBA 693R), "Introduction to PhD-Level Research in Business" (MBA 593R), "Business Ethics" (MBA 604), "Systems Design and Implementation" (IS 411), "Enterprise Application Development" (IS 413), and "Principles of Business Programming" (IS 403).
- Conducted regular lab hours to assist students primarily with assignments and projects involving Python, Django, C#/ASP.NET MVC, JavaScript/jQuery, HTML, CSS, Bootstrap, SQL, Azure MLS, Tableau, and Excel.

Mozenda

Provo, UT

2015–2016

Software QA Engineer

- Worked closely with software development teams in a Scrum environment to rapidly identify and address issues in functionality, UX/design, etc.
- Improved the company's WordPress site (incl. help center) by editing/replacing existing content and assisting marketers and technical writers with content creation.

Product Specialist

2015

- Helped clients use and understand the Mozenda web-scraping software, resolve specific issues, develop new skills (e.g., XPath, RegEx), and have positive experiences using the product.
- Directly fulfilled clients' data requirements through web scraping using JavaScript, XPath, and RegEx.

EDUCATION

Brigham Young University, Marriott School of Management

Provo, UT

2018

M.S., Information Systems Management

- GPA: 3.97
- PhD Preparation Track

B.S., Information Systems

2017

- GPA: 3.95
- Japanese Minor & Language Certificate
- Global Management Certificate