

Nathan Friend

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SUMMARY

I am a front-end software engineer with a passion for creating elegant solutions to complex problems. I am fascinated with usability and aesthetics and strive to create beautiful, productive software. I thrive in team environments and love learning new technologies and methodologies. As a self-motivated learner, I am continually seeking ways to sharpen my skills and deepen my knowledge in all areas related to the software industry.

EDUCATION

Masters of Human Computer Interaction

Iowa State University, Ames, IA 50011

Expected Graduation: May, 2020

Bachelor of Arts in Computer Science: System Administration

Minor in Music Performance: Cello

Dordt College, Sioux Center, IA 51250

Graduation: May, 2013

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, C#, CSS3, Less, HTML5, SQL, RAML

Frameworks, Libraries, and Platforms: AngularJS, Knockout, D3, AngularJS Material, Bootstrap 3, Node, Hapi, Electron, Jasmine, Karma, WebdriverIO, Solr, jQuery, WebGL, WPF, Web API 2, Entity Framework, Keycloak, Oracle, SQL Server, NGINX, Apache, Ubuntu

Tools: Webpack, Gulp, Grunt, NPM, Yeoman, Jenkins, Git, SVN, TFSVC, Jira, Confluence, Upsource, Docker, AWS, Visual Studio, Visual Studio Code, Balsamiq Mockups, Agile/Scrum

Concepts: Single Page Applications (SPAs), internationalization (i18n), web analytics, unit testing, continuous deployment, user experience testing, REST API design, cross-browser debugging, responsive design, developer workflow optimization

EXPERIENCE

Computer Systems Analyst for DeltaWare

August 2016 - current

- Architected the front-end for DeltaWare's newest line of web products
- Introduced and implemented TypeScript for compile-time safety
- Optimized developer workflows with Yeoman generators, incremental building, and LiveReload capability
- Assisted in the hiring of several new employees
- Performed code reviews for new employees and served as their primary technical mentor
- Implemented Google-like searching functionality using Solr
- Worked directly with clients and business owners to capture requirements, review designs, and demo prototypes
- Pushed for best practices such as continuous deployment, code reviews, UI mockups, open source participation, and documentation

Software Development Specialist for DuPont Pioneer

May 2013 – July 2016

- Designed a modular front-end framework for a new business initiative using AngularJS, JSPM, and GitLab

- Rebuilt Gulp builds to maximize developer and runtime efficiency for Field Planner, a large, multi-team AngularJS project. Worked extensively with the Leaflet mapping library and the AngularJS Material library
- Designed and implemented the front-end architecture for FTMS, a complex single-page application built with TypeScript, LESS, Knockout, and ASP.NET
- Built and managed Grunt, Gulp and MSBuild-based build processes and an Octopus-based deployment strategy
- Implemented front-end TypeScript unit testing frameworks using PhantomJS, Karma, Jasmine and the Chutzpah test runner
- Implemented and enforced coding standards using NDepend and tslint, conducted regular code reviews, coached interns and junior team members
- Worked directly with product owners to gather requirements, clarify processes, and diagnose bugs
- Used prototyping and Balsamiq mockups to facilitate design discussions
- Served as a key technical and design resource on the UX/UI Tools Team, an initiative from Pioneer leadership to implement UX best practices and standardize key UI components and branding across the department
- Primary developer of the SoyLib UI library, a framework for building streamlined and visually consistent WPF applications
- Integrated Bing Map functionality into LM (Location Manager) to provide intuitive field visualizations

UX Development Intern for Visual Logic Group

January 2013 – May 2013

- Worked as part of a creative team to design and implement new features for the MyJohnDeere application prototype
- Evaluated technical feasibility of UI ideas generated by the UX team
- Served as a technical resource regarding MyJohnDeere implementation

Web Developer for Dordt College

January 2012 – May 2013

- Designed, developed, and maintained portions of *dordt.edu*, an external-facing Perl-based web application
- Streamlined content updates using automated Photoshop scripting for batch image processing
- Assisted in development of *dcc.dordt.edu*, an internal Drupal-based web application for students and faculty
- Worked closely with end-users to update site functionality

Software Development Intern for DuPont Pioneer

May 2012 – August 2012

- Created and supported LAS (Library Alert System), an internal web application for Pioneer's library department using jQuery UI and ASP.NET
- Worked directly with product owners to capture requirements and communicate design decisions

Web Development Intern for SnupNow, LLC

April 2011 – August 2011

- Implemented email reporting using HTML templating

Computer Services Workstudy for Dordt College

May 2010 – August 2010

- Assisted in campus-wide Windows XP to Windows 7 migration
- Worked directly with faculty and staff to backup files, diagnose technical issues, and answer questions

OUTSIDE OF WORK

US Citizen with a Canadian work permit (soon to be a Permanent Resident)
 Ultimate Frisbee enthusiast
 Studio recording hobbyist