Nathan Friend

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SUMMARY

I am a 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 Science in **Human Computer Interaction**
Iowa State University, Ames, IA 50011
Expected Graduation: May, 2019

Bachelor of Arts in **Computer Science: System Administration**
Minor in Music Performance: Cello
Dordt College, Sioux Center, IA 51250
Graduation: May, 2013

TECHNICAL SKILLS

Fluent in JavaScript (ES5 and ES6), TypeScript, C♯, CSS3, HTML5, and SQL

Experienced with Angular, Knockout, jQuery, WPF, Web API 2, and Entity Framework

Familiar with Git, TFSVC, and Agile/Scrum methodologies

PORTFOLIO

nathanfriend.io/portfolio

PROJECTS

Inspirograph, a graphical web application written in TypeScript, using D3.js
nathanfriend.io/inspirograph

Field Planner, a visual precision ag platform built for farm and field management
encirca.services.pioneer.com

FTMS, a rules-driven web application that enables DuPont contractors to manage data collected from chemical test trials; developed with TypeScript and C♯

Location Manager, a multi-crop, globalized WPF application used by crop breeders to easily interface with research data

Contributor to **tslint-eslint-rules**, a repository of rules for tslint, a TypeScript code quality tool
github.com/buzinas/tslint-eslint-rules

CoolToJS, a Cool (**C**lassroom **O**bject **O**riented **L**anguage)-to-JavaScript compiler, built with TypeScript and Babel.js
nathanfriend.io/cooltojs

RIM PSI Dashboard, a project management visualizer written in Angular

Theremin, a musical instrument using Leap Motion and the Web Audio API
nathanfriend.io/theremin

Rook, a web-based, multiplayer implementation of the card game *Rook*
nathanfriend.io/rook

EXPERIENCE	**Software Development Specialist** for **DuPont Pioneer**	*May 2013 - current*

- 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 software issues
- 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 (**L**ibrary **A**lert **S**ystem), 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 any and all computer-related questions

OUTSIDE OF WORK	Des Moines Symphony cello extra
	Private cello instructor
	Iowa Games Ultimate Frisbee tournament competitor