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Brannen Hall

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EDUCATION

University of Minnesota — Twin Cities   **Minneapolis, Minnesota**
Bachelor of Arts in Computer Science   Expected December 2019

- 3.7 GPA
- Dean's List Fall 2017
- Dean's Freshman Research Scholar
- Robert P. Sands Endowed Scholarship recipient
- University of Minnesota App Developers Student Group member

WORK EXPERIENCE

IndusTrack   **Plymouth, Minnesota**
Software and Testing Intern   December 2017 – Present

- Maintain a Xamarin application
- Write unit tests for a Xamarin application in F# and C# with FOQ, reflection, and NUnit
- Write unit tests for an Angular application
- Create F# bindings for service states, allowing new tests to be scripted quickly in a REPL loop

University of Minnesota — Twin Cities   **Minneapolis, Minnesota**
Research Assistant   January 2017 – June 2017

- Built a web application for displaying information about the Immigration History Research Center's documents
- Used Typescript, MongoDB, express.js, mongoose, Bootstrap, and jQuery
- Employed Scala to query the Archive's website, extract the appropriate data, and save it to MongoDB

PROJECTS

Social Todo

- Developed a RESTful API service in Vapor using Swift for an iOS application
- Scaled application by using event loops to handle multiple requests simultaneously
- Implemented promises to query Facebook in an asynchronous manner
- Sped up database calls by implementing custom SQL queries
- Deployed to Digital Ocean using Docker

Transit Planner

- Developed an iOS application for querying the closest park and ride
- Queried MapKit to get the transit distance between two nodes and the driving distance between the nodes and user provided locations

VOLUNTEER EXPERIENCE

North Metro Adult Basic Education   **Anoka, Minnesota**
English as a Second Language Tutor   August 2016 – September 2017

- Assisted ESL students with basic computer literacy
- Worked with ESL students on pronunciation, grammar, and reading comprehension

TECHNICAL SKILLS

- Languages: Swift, C, C#, F#, Java, Python, Bash, SQL
- Platforms: Azure, ASP.NET, iOS, MongoDB (including casbah and mongoose), Vapor
- Tools: Visual Studio, Microsoft TFS, Git, Praat, IntelliJ, RIFF based file formants (i.e. WAVE files)
- Linux including Fedora Linux, openSUSE, Ubuntu, Debian, RHEL, SLED, and SLES