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EDUCATION

University of Minnesota – Twin Cities, Minneapolis, MN   **Expected Spring 2019**
- B.S. in Computer Science. GPA 3.5/4.0
- Coursework: Developing Interactive Web, Artificial Intelligence, Data Mining, Database Management Systems, Software Design & Development, Algorithms & Data Structures, Advanced Programming Principles, Machine Architecture & Organization, Machine Learning (MOOC)

WORK EXPERIENCE

Student Intern   **Medtronic**   **September 2018 – Present**
- Build an ASP.NET Core web application used to support co-edit and sync graph data among collaborators in real-time
- Architect and design data pipelines on Neo4j database, deploy and manage data in Docker and AWS
- Deliver Cypher scripts to support API endpoints for creating/updating/deleting graph data with node and link structure
- Remotely coordinate with an on-site development team using Agile methodology to complete deliverables

Software Intern   **CyberOptics Corporation**   **May 2018 – August 2018**
- Improved back-end and front-end of a ASP.NET web application which collects data and visualizes data statistics
- Sped up Oracle SQL queries by at least 50%; some query execution time reduce from hours to few minutes
- Visualized manufacturing product line statistics with interactive SVG charts using jQuery and D3 DOM frameworks
- Performed data analysis on threshold calculations, potential schema changes and future software development

Software Intern   **CyberOptics Corporation**   **May 2017 – December 2017**
- Built smoke testing and regression testing frameworks for CyberOptics' measurement devices and scanning systems
- Implemented, debugged, and revised unit tests on NUnit framework. Updated and automated manual test cases to increase accuracy and efficiency
- Contributed to the user interface development project: designed mock-ups; tested the functionality of user interfaces and controls of desktop applications for sensing devices

ACADEMIC EXPERIENCE

Research Assistant   **GroupLens Research**   **September 2018 – Present**
- Build a full-stack mobile app to facilitate tracking and documentation of the verification, safety, and appropriateness of opioid medication treatment plans to prevent drug abuse after surgery
- Utilize React Native framework and Firebase Database to support usage of multiple mobile platforms and synchronization of data across patients, nurses and surgeons

Teaching Assistant   **Department of Computer Science & Engineering**   **September 2018 – Present**
- Aid faculty members in grading assignments and preparing instructional materials for classes of 200 or more students
- Offer detailed feedback on assignments and exams. Help student practice working through the material to develop concept-mastery necessary to approach their graded-work independently

PROJECTS

Trait Predictor - (*Class Project - Machine Learning Experiment)***   **March 2018 – May 2018**
- Explored the "Speed Dating Experiment" dataset: used data visualization and machine learning techniques to extract key attributes and factors of both genders that influence the matching making and decision-making processes
- Built decision tree and random forest models to predict the success rate of men and women in speed dating session. Compared the performances of each model and technique with different sets of parameters, attributes, test splits in correctly predicting the outcomes

OKBO (*Personal Project - Android Mobile Application Development)***   **December 2016 – January 2017**
- Participated in Microsoft's Imagine Cup competition. Built app that can scan books' barcodes and provide useful information from credible sources
- Utilized Google Books API to pull data to internal database and perform text searches. Implemented SQLite database to import, maintain, and query collected data information in the mobile app

TECHNICAL SKILLS

- Languages: Java (Proficient), C# (Proficient), Python, C/C++, HTML, JavaScript, CSS, SQL, XSLT
- Machine Learning: R/RStudio, Pandas, Scikit Learn, Tensor Flow, MATLAB, CNN
- Software Development: Visual Studio, ASP.NET, Flask, React Native, Neo4j, Docker, Heroku, AWS