Drake Eidukas

Expected Graduation Date: Spring 2019

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Work Experience

Amazon | Direct Traffic Technology | SDE Intern **Seattle, WA | Summer 2017**

- Performed back-end data engineering for Amazon Assistant on the browser extensions team.
- Implemented both client-side and back-end APIs for collecting and storing anonymized user metrics.
- Used NodeJS / typescript to implement client-side API methods for retrieving current user metrics.
- Used Java in EC2 instances to implement back-end API methods for retrieving and storing critical user data.
- Code had to scale to support over 1250 requests per second across all sales regions.

Course Staff (TA) | CS 126*, CS 233*, CS 196*, Stat 430, CS 199 **Spring 2017 – Current**

- I hold office hours for CS 126, CS 196, and CS 233, and teach a discussion section for CS 233.
- I grade assignments and run plagiarism detection on assignments, and wrote scripts to automate uploading to plagiarism server.
- I perform live code reviews / PR reviews for students' github repos for CS 126 assignments.

AARP (Student Contractor through AllSource) | Mobile Developer **Urbana, IL | Spring 2017**

- Developing a skill for Amazon Alexa to help patients to keep track of medications / general purpose reminders for caretakers.
- Administering a Linux server, as well as developing with AWS Lambda and DynamoDB
- Developing and implementing test suites, internationalization, and establishing workplace coding conventions.
- Largely involved with long term planning for the project and application architecture.

LCDM | Undergraduate Researcher **Urbana, IL | Fall 2016 – Spring 2017**

- Perform research about natural language processing and knowledge extraction with the Laboratory of Computation, Data Mining, and Machine Learning under Dr. Brunner for use in plagiarism detection.

HostItRight | Mobile Development Engineer **Chicago, IL | Summer 2016**

- Designed and implemented the architecture of an application that allowed parents to monitor the location of their children in real time using Google's location APIs and Firebase APIs.
- Led and developed a team of 3 students, and optimized workflows with versioning control and coding conventions.

Education

B.S. in Computer Science | University of Illinois at Urbana-Champaign | 3.8 / 4 GPA **Fall 2016 - Spring 2019**

- Applied Machine Learning [CS 498 AML] | Numerical Methods [CS 357] | Data Structures [CS 225] | Computer Architecture [CS 233] | Programming Languages and Compilers [CS 421] | Algorithms and Models of Computation [CS 374] | Art of Web Programming [CS 498 RK]

High School Diploma | Illinois Mathematics and Science Academy **Graduated Spring 2016**

- Advanced Object-Oriented Programming | Algorithm and Data Structure Design in C++ | Computational-Science | Graph Theory | Discrete Mathematics | Computer Seminar in Cybersecurity and Android Development

Projects

Twilight | University of Illinois at Urbana Champaign **Urbana, IL | December 2016 - Present**

- Investigating interesting applications of LED strips with microcontrollers
- Current project is intelligent backlighting for computer screens using real time video analysis
- Designed, tested, and built wooden boxes with 3m of individually addressable LEDs designed for ceiling mounting in a network

Fontr | University of Illinois at Urbana Champaign **Urbana, IL | August 2016 - December 2016**

- Used OpenCV and Scikit-Learn to classify the font used in an image of printed text through a webapp deployed through AWS.
- Led a team of 10 students on this project, and implemented machine learning portion of project.

Machine Learning | Illinois Mathematics and Science Academy **Aurora, IL | April 2016 - May 2016**

- Designed, implemented, and used boosted decision trees and artificial neural networks to tell if a given dataset represents a star or a galaxy based on training datasets using standard C# libraries for parallel computation.