Eric Hemphill

hemphill.39@osu.edu | 330.690.6303

EDUCATION

OHIO STATE UNIVERSITY
Major in Computer Science
Focus in Machine Learning
Minor in Statistics
Expected May 2018 | GPA: 3.41

COURSEWORK

IN-PROGRESS

Introduction to Data Mining
Operating Systems Laboratory
Computer Vision
Data Analytics I
Knowledge Systems Capstone

PLANNED (SP18)

Data Analytics II
Intro to Parallel Programming
Compiler Design
Foundations of Speech & Language Processing
Machine Learning

COMPLETED

Advanced Artificial Intelligence Survey
Computer Networking
Principles of Programming Languages
Automata & Formal Languages
Intro to Mathematical Statistics I & II
Interactive Systems Project
Intro to Database Systems
Intro to Artificial Intelligence
Systems: Operating Systems
Systems: Computer Organization
Foundations of Higher Mathematics
Data Structures & Algorithms
Intro to Electrical Engineering I & II

SKILLS

PROGRAMMING

Language:
• Java • C# • Python • Typescript
• C • C++ • Javascript

Technologies
• Spring • Angular • .NET
• .NET Core • Android • Git • Unix

EXPERIENCE

84.51° (KROGER/RALPHS) Software Development Intern
May 2017-August 2017 | Cincinnati, OH

- Developed an open sourced interview platform, CoDE (Collaborative Development Environment), used to interview developer candidates in real time
- Utilized Spring framework to create a REST API microservice to support CoDE's frontend and allow room for extension in future additions
- Utilized JUnit testing framework to thoroughly test Spring backend in an agile environment
- Created and tested material frontend for both interviewer and candidate using Angular and PhantomJS

FIDELITY INVESTMENTS Software Engineering Intern
May 2016-August 2016 | Durham, NC

- Utilized Domain Driven Design to develop a cloud-ready ASP.NET Core web application to monitor production server endpoints
- Created Visual Studio extension in C# that streamlined the process of managing XML based messages

SCHAEFFLER GROUP USA Software Engineering Intern
May 2015-August 2015 | Wooster, OH

- Designed ASP.NET MVC web application to track and produce reports for part profit margins over a production cycle
- Streamlined the process of margin report meetings by generating clean, easy to read margin reports on the fly

PROJECTS

AUTOMATIC MUSIC TRANSCRIPTION AI II Semester Project
Spring 2016

- Used Tensorflow libraries to train model that automatically transcribes piano music from waveform data to MIDI format
- Created Python scripts to perform Fourier transforms on 40ms segments of songs to train against corresponding MIDI data
- Developed Python scripts to convert MIDI files to and from csv to make easily digestible data for training

REBUGGER www.github.com/sadcyclops/RebuggerCS
MHacks 8 | October 2016

- Created Online 32 bit MIPS assembly emulator and debugger that supports all integer based instructions and data sections
- Designed AngularJS frontend for writing and dynamic debugging of MIPS code

SMART MIRROR
Autumn 2016

- Developed personal information hub for weather, time, and calendar events hosted on a Raspberry Pi using the Flask web framework