

Eric Hemphill

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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
 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
 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

VISUAL NBA PLAYER TRACKING

84.51 Hackathon (Won Limitless Minds Challenge) | August 2017

- Utilized OpenCV libraries to track NBA players in NBA broadcast footage
- Developed Python scripts to find court lines, identify people inside the court, and track them frame to frame

AUTOMATIC MUSIC TRANSCRIPTION AI II SEMESTER PROJECT

Spring 2017

- 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