

# 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  
 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  
 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](http://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