

# John Wonjin Choi

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## EDUCATION

*University of California, Irvine – B.S. Computer Science (Intelligent Systems)*

Expected Graduation: *December 2019*

GPA: *3.510*

## EXPERIENCE

### *Western Digital Software Engineer Intern*

June 2019 – Present

- Developed a proof of concept unsupervised machine learning model in Python to tier data on a hybrid ActiveScale system via anomaly detection
- Extensive use of Python in conjunction with bash scripts to pull and aggregate S3 protocol access logs from deployed ActiveScale systems
- Aided in the implementation of a supervised model for test time reduction of HDDs' manufacturing test cycles

### *Cox Automotive Software Engineer Part-Time*

Oct. 2018 – June 2019

- Comprehensive automation of AWS Infrastructure using Terraform and Jenkins
- Design and implementation real-time, big data applications in Scala using Kinesis, Kafka, and Spark
- Built the automation infrastructure of AWS SageMaker machine learning model deployments via Docker and Jenkins

### *Kelley Blue Book Software Engineer Intern*

June 2018 – Sep. 2018

- Further developed and maintained existing vehicle recommendation APIs for Kelley Blue Book, Autotrader, and Dealer.com
- Specialized in Scala, Terraform, Python, and AWS to pipeline and deploy products through Jenkins
- Documented team's API changes via Swagger

### *UC Irvine School of Social Sciences IT Student Technician*

Apr. 2017 – Dec. 2018

- Provided technical support for UCI Social Science school faculty, staff, and graduate students
- Imaged computers using GhostCast and resolved technical issues (hardware and software) at the helpdesk

### *ApJam+ Program Mentor*

Sep. 2017 – June 2018

- Educated and mentored youth in programs and initiatives that contribute to Science, Technology, Engineering & Math (STEM) fields under the oversight of Dreams for Schools
- Instructed middle/high school students to use MIT's AppInventor2 and Thunkable Java-based, mobile app development platforms

## SKILLS

<b>Computer Languages</b>	Python (3.5 yrs.), C++ (1 yr.), Java (1 yr.), Scala (1 yr.), Terraform (1 yr.), C (<1 yr.), Assembly (<1 yr.)
<b>AWS Technologies</b>	Elastic Beanstalk, EC2, S3, DynamoDB, Route53, SageMaker, SQS, SNS, API Gateway, CloudWatch, Lambda, Rekognition, EMR, Kinesis, Data Pipeline, CloudTrail, IAM
<b>Misc. Software</b>	Windows, MacOS, iOS, Android, Git, Git-Flow, GitHub Issue Tracking, Jenkins, NiFi, Swagger, JMeter

## PROJECTS

### *HDD Test-Time Reduction Model (Western Digital Internal Hackathon Python Project)*

July 2019

- Developed a supervised machine learning model to detect when to skip certain steps of an HDD's testing cycle

### *Steve.AI (Python ML Course Project)*

May 2019

- Implemented a deep Q-learning neural net fighting agent within Minecraft via Python's Malmo interface

### *Predictive Model for Healthy Counties in the United States (Python ML/Data Mining Course Project)*

Mar. 2019

- Modeled a Random Forest Classifier on census data from the USDA to predict U.S. counties' healthiness

### *Emotional Confidence Detector (2018 Cox Automotive Hackathon Python Project)*

Sep. 2018

- Utilized AWS Rekognition to analyze automotive test drivers' emotions to aid dealerships in sales negotiations

### *Giggle Search Engine (Python + JavaScript Information Retrieval Course Project)*

May 2018

- Implemented a web crawler through the ics.uci.edu domain to create a Python Bottle server search engine

### *Blackjack Counter (2018 LAHacks Python Project)*

Mar. 2018

- Built a live, streaming analysis of a Blackjack game using the OpenCV image/video analysis library in Python and PyQt4 GUI

### *Main Menu (2018 HackUCI Python + React Project)*

Feb. 2018

- Analysis of Yelp reviews to generate informative restaurant menus using machine learning and Python servers
- Developed the data retrieval methods through Yelp's API and minimal web scraping via a custom Python Bottle server

## MISC

<b>Hobbies</b>	Driving, Photography, Cinematography, Photo/Film Editing, Desktop Computer Construction, Investing
<b>Spoken Languages</b>	English, Korean