

# John Wonjin Choi

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## EDUCATION

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

Expected Graduation: December 2019

UCI GPA: 3.510

## PROFESSIONAL

### *Western Digital Software Engineer Intern*

June 2019 – Present

- Optimizations to the hybrid ActiveScale product to incorporate machine learning into efficiently storing tiered big data personalized to clients
- Focus on building a POC machine learning model in conjunction with extensive bash scripting to aggregate data from multiple deployed ActiveScale systems

### *Kelley Blue Book Software Engineer Part-Time*

Oct. 2018 – June 2019

- Positioned in an agile, Cox Automotive team developing API's for Kelley Blue Book, Autotrader, and Dealer.com
- Extensive use of and automation of AWS Infrastructure using Terraform and Jenkins
- Design and implement Big Data real-time data applications in Scala using Kinesis, Kafka, and Spark, closely in relation to Machine Learning using AWS SageMaker

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

Apr. 2017 – Dec. 2018

- Providing technical support for UCI Social Science school faculty, staff, and graduate students
- Imaging computers using GhostCast and resolving any number of technical issues (hardware and software) through the helpdesk

### *Kelley Blue Book Software Engineer Intern*

June 2018 – Sep. 2018

- Positioned in an agile, Cox Automotive team developing API's for Kelley Blue Book, Autotrader, and Dealer.com
- Specializing in Scala, Terraform, Python, and AWS to pipeline and deploy products through Jenkins
- Software products generally are in relation to vehicle recommendation engines and shopper profile personalization engines

### *ApplJam+ Program Mentor*

Sep. 2017 – June 2018

- Under the oversight of Dreams for Schools, mentors educate youth in programs and initiatives that contribute to Science, Technology, Engineering & Math (STEM) fields
- Built through MIT's AppInventor2 and Thunkable mobile app development platforms, both based on Java

## SKILLS

<b>Computer Languages</b>	<i>Proficient:</i> Python, Scala, Terraform, C++	<i>Experience in:</i> C, Assembly, Java
<b>Web</b>	<i>Proficient:</i> HTML	<i>Experience in:</i> CSS
<b>AWS Technologies</b>	<i>Proficient:</i> Elastic Beanstalk, EC2, S3, DynamoDB, API Gateway, CloudWatch, Lambda, Kinesis, Data Pipeline, CloudTrail, IAM	<i>Experience in:</i> Route53, SageMaker, SQS, SNS, Rekognition, EMR
<b>Misc. Software</b>	<i>Proficient:</i> Windows, MacOS, iOS, Android, Jenkins, Git, Git-Flow, GitHub Issue Tracking	<i>Experience in:</i> JMeter

## PROJECTS

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

May 2019

- Deep Q-learning neural net implementation of a 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

- Built and trained a Random Forest Classifier model on census data from the USDA to predict U.S. counties' healthiness

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

Sep. 2018

- Utilizing AWS Rekognition to analyze 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

- Live 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
- Contributed data retrieval from Yelp's API and minimal web scraping through a Python Bottle server

## MISC

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