

CHRISTOPHER DANHEE CHOI

EXPERIENCE



Sep 2022 - Present
Remote, WA

eBay Inc. - Search Services Team
Member of Technical Staff I

Search SaaS

Experience Service

Worked to improve user experience on Search Results Pages on eBay.



Jan 2017 - Sep 2022
Seattle, WA

Amazon.com, Inc. - U.S. Topology Team under Supply Chain Optimization Technology - Inventory Planning
Software Development Engineer II - Lead SDE & Scrum Master

Last Mile Model Tool

Implemented Optimization/simulation tools utilized by analysts to find out optimal last mile delivery strategies answering questions like which cities to expand to, where to locate stations, which zip codes to serve, and what the associated costs will be.

Have been a single owning fullstack engineer for the tool and led bi-weekly meeting with customers for more than 2 years.

Redesigned and migrated the backend to save cost by introducing serverless architecture and increased concurrent simulation limit from 3 per AWS EC2 hosts to 2,000 AWS Fargate containers.

Revamped frontend by migrating from Java Spring Boot to ReactJS for better engineering community support.



Jan 2015 - May 2016
Champaign, IL

State Farm - Research and Development Center
Intern - Systems

Twitter Mining Project:

Implemented Python program that measures the time to collect the reply tweets to the congratulatory tweets and visualize it into graph using Twitter Streaming API and REST API.

RDC Website Redesign Project:

Redesigned and developed the prototype of new RDC website using ExpressJS, AngularJS, NodeJS, CouchDB, and other web development languages such as HTML, CSS, JavaScript.

Next Generation Imaging System Project:

Researched and developed a prototype of database system which can provide large amount of extracted text information from image file faster using Hadoop, Hbase, MapReduce, and Tesseract-OCR in Java Programming Language.

DRIVES Eye-Tracking Project:

Created video data collection program using Python programming language and OpenCV library in order to use the data for eye-tracking algorithm accuracy test.

Researched on and learned about eye-tracking algorithm using OpenCV library in details and wrote a report for the next interns to work on this project.

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EDUCATION

University of Illinois at Urbana-Champaign
BS in Statistics and Computer Science - 3.36/4.0
Minor in Mathematics

Graduated in December 2016

Edmund J James Scholar 2013 - 2014

CERTIFICATION

Udacity Mentorship

Issued Jul 2022

SKILLS

Web Development:

HTML5, CSS3, JavaScript, jQuery, React.js

General-Purpose Programming Language:

Java

Scripting Programming Language:

Python

Amazon Web Services:

EC2, S3, DynamoDB, Lambda, API Gateway, ECS, Fargate, CloudFormation

Mobile Development:

React Native

Database:

MySQL, MongoDB

Tools:

Microsoft: Words, Excel, PowerPoint

Adobe: PhotoShop, InDesign

Others: QGIS, Postman