

# Sumin Cho

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## EDUCATION

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### University of Illinois Urbana-Champaign

August 2020 - May 2023

Bachelor of Science in Computer Science and Advertising

GPA: 3.91/4.00

**Relevant Coursework:** Data Structures, Algorithms and Models of Computation, Computer Systems, Software Design Studio, Database Systems, Artificial Intelligence, Programming Languages and Compilers, Probability and Statistics for Computer Science, Computational Advertising, Tech and Advertising Campaigns

## EXPERIENCE

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### Software Development Engineer in Test | Motorola Mobility

September 2023 - Present

- Maintain the Stability Test Automation Framework for Motorola smartphones
- Ensure 100% documentation coverage by automating doc updates with Python and Confluence API
- Enhance the dashboard by implementing a heat map of completed test runs using Python and Django
- Reduce the code complexity of the framework by refactoring test suites in Python

### Software Engineering Intern | Red Hat

May 2022 - August 2022

- Developed Cachito, a Python service to cache source code and its dependencies
- Redesigned the error handling system by applying custom exceptions and storing comprehensive error logs in a SQL database table using Python, Flask, and SQLAlchemy
- Extended the API by adding an endpoint to retrieve error metrics and query parameters to filter errors

### Lead Course Assistant | Data Structures

January 2022 - May 2023

- Led the course staff in number of office hours hosted with over 200 hours in a semester
- Oversaw lab groups of over 100 students, guiding them through concepts on data structures and C++

### Web Developer | MUSE Research Group

December 2021 - May 2022

- Created the research group's [website](#) (HTML, CSS, and JS) which showcases the team and their work
- Designed an interactive dashboard with a choropleth map visualizing YouTube trends

### Mobile App Developer | SmartForm

September 2020 - December 2021

- Devised a mobile fitness app (with Flutter) that provides a live feedback of the user's workout posture
- Implemented a lunge pose detection in the app using Python and PoseNet (a TensorFlow model)

## PROJECTS

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### [Object Recognizer](#)

Python, PyTorch, NumPy

- Trained a convolutional neural network to classify images with 95% testing accuracy
- Increased the accuracy of the neural network by 30% through building a custom PyTorch model

### [Online Course Recommender](#)

JavaScript, MySQL, React, Node.js, Google Cloud Platform

- Built a web app that recommends online courses from Coursera, Udemy, and edX to users
- Managed a team of 4 members by distributing tasks and tracking their progress for each milestone

## SKILLS

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**Programming Languages:** Python, C/C++, Java, JavaScript, SQL, HTML, CSS, OCaml, Bash

**Frameworks & Tools:** Django, Flask, Git, Google Cloud Platform, Linux, MongoDB, REST API