Sumin Cho

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EDUCATION

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

EXPERIENCE

Software Development Engineer in Test | Motorola Mobility   *September 2023 - Present*
- Reduce the execution time of an Android screen parser from 3000 ms to 250 ms by establishing an active server app which instantly fetches the XML layout of the current UI upon request
- Maintain a rack of Motorola smartphones by automating test runs on the latest OS builds with Jenkins
- Enhance the dashboard by adding a heat map of completed test runs using Django and Vue.js
- Ensure 100% documentation coverage by automating doc updates with Python and Confluence API

Software Engineering Intern | Red Hat   *May 2022 - August 2022*
- Developed Cachito, a Python service to cache and serve source code for applications
- Redesigned the error handling system to register failed requests as comprehensive error logs in a SQL database table using Flask and SQLAlchemy
- Extended the API by implementing CRUD and metrics endpoints for the request error database table

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

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

Programming Languages: Python, C/C++, Java, JavaScript, SQL, HTML, CSS, OCaml, Bash
Frameworks & Tools: Django, Flask, Git, Google Cloud Platform, Jenkins, Linux, MongoDB, REST API