Marcus Kim

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EDUCATION

North Carolina State University, Raleigh, NC   Expected, May 2023
B.S. Computer Science (Major GPA: 3.73 / 4.0)

SKILLS

Languages: Java, Python, JavaScript, SQL, HTML, CSS, Terraform
Frameworks/Tools: NodeJS, React, Flask, Spring, Selenium, Cucumber, Junit, Git, Linux

WORK EXPERIENCE

UNDERGRADUATE RESEARCHER   August 2022 – Present
NORTH CAROLINA STATE UNIVERSITY, Raleigh, NC
- Research on application of conversational A.I in pair programming to enhance productivity of software developers
- Extract and transform the data with Pandas and Numpy and load it into machine learning and classification models to evaluate efficacy

SOFTWARE ENGINEER INTERN   May 2020 – November 2020
DOCUSIGN, San Francisco, CA
- Automated multi-cluster Kubernetes deployment under Rancher across AWS, Azure, and on-premise using infrastructure-as-code
- Established disaster recovery for Rancher with AWS S3 and terraform and launched Grafana application in kubernetes clusters
- Created a React application to monitor and maintain instances across multiple cloud infrastructure
- Coordinated Illumio integration into ServiceNow instance for instance management

UNDERGRADUATE RESEARCHER   August 2019 – December 2019
NORTH CAROLINA STATE UNIVERSITY, Raleigh, NC
- Created Regular Expression libraries for Rosie Pattern Language that extract copyright, author, license, and versioning information
- Tested the created libraries and communicated the progress with a professor

TECHNICAL INTERN   May 2019 – August 2019
BIRLASOFT, Raleigh, NC
- Resolved assigned errors and bugs in proprietary software using NSIS and JavaScript
- Automated data collection from error logs with Python
- Provided weekly presentation on progress in assigned tasks to supervisors

PROJECTS

Service Raleigh | Python, JavaScript, HTML, CSS, Django, PostgreSQL, Docker
- Handled full-stack implementation of new features and modification of volunteers and site management program
- Collaborated with other students in Agile manner to manage more than 2,000 volunteers and 20 service projects registered

iTrust2 | Java, JavaScript, AngularJS, Spring, Maven, Hibernate, Jenkins, SQL, Selenium, Cucumber, JUnit, Jenkins
- Developed a hospital management application using Java, AngularJS, Spring, Hibernate, and REST API in Agile environment
- Conducted Integration testing and behavioral driven development with Selenium and Cucumber to ensure the system functionality

COURSEWORK

Data Structures and Algorithms, Software Engineering, Concepts and Facilities of Operating Systems, Communication for Engineering and Technology, Database Management, Introduction to Artificial Intelligence, Automated Learning and Data Analysis, C and Software Tools

OTHER ACTIVITIES

Computer Science Department Ambassador   August 2019 – Present
Republic of Korea Army   December 2020 – June 2022