Brian Ying-Chi Chen

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Rising Junior Computer Science student from the University of Michigan, interested in a software engineering or development intern position. Proficient in multiple programming languages and have multiple internships and large-scale projects. Experienced in writing scalable, high-quality code with good test coverage. Enthusiastic, responsible, motivated to learn new skills, and thrive when working in team environments.

WORK EXPERIENCE

SOFTWARE DEVELOPMENT ENGINEER INTERN
ASUS Intelligent Cloud Services, Taipei, Taiwan | 2022/05 – 2022/08
- Received DevOps training in different Azure services, Azure pipeline, Docker, Kubernetes, and Helm.
- Developed Python web applications with Django, and deployed on Azure App service.
- Containerized applications with Docker, implemented CI/CD with Azure Pipelines, and removed code smells with the help of Sonar Cloud.
- Stored API requests in Azure SQL database and implemented basic security measures by storing database information and passwords as secrets on Azure Key Vault and accessing them through managed identity.
- Manipulated PostgreSQL databases with SQL and Python scripts using the psycopg2 and SQLAlchemy libraries.

INFORMATION TECHNOLOGY ASSISTANT
University of Michigan, Ann Arbor, MI | 2022/01 – 2022/04
- Troubleshoot hardware and technical issues of electronic devices connected across the school network.
- Provided technical support to faculty and students at the University Of Michigan School Of Public Health.

SOFTWARE ENGINEER INTERN
Lenovo, Taipei, Taiwan | 2021/06 – 2021/08
- Received comprehensive training in NumPy, PyTorch, OpenCV, and other Python ML-related frameworks.
- Fine-tuned deep convolutional neural networks to create image classification models with the CIFAR-10 and CIFAR-100 datasets as part of a research project at the Lenovo Datacenter.
- Created real-time object identification programs with pre-trained models and OpenCV.
- Wrote optimized python scripts to organize and filter data from excel files.

E-COMMERCE SOFTWARE DEVELOPMENT INTERN
Parfums Christian Dior, Taipei, Taiwan | 2020/06 – 2020/08
- Implemented front-end web interfaces such as animated dropdown-menus, responsive images, and animated text using JavaScript, HTML, and CSS under the guidance of a mentor.
- Implemented responsive web design on Dior Taiwan's new SS21 E-commerce website for mobile devices.
- Tested website functionality and checked for back-end database failures by passing in sample membership information and purchase orders.

Education

UNIVERSITY OF MICHIGAN, ANN ARBOR
B.S.E. in Computer Science   Expected April 2024
Engineering Honors GPA 3.86/4.0
Michigan Mars Rover Team - Computer Vision Engineer   2021 – present

Skills

Programming: Python, Python ML Frameworks, C++, C, Java, HTML & CSS, JavaScript, SQL, Git
Software / Tools: Docker, Kubernetes, Microsoft Azure, Jupyter Notebook, PostgreSQL