

Brian Ying-Chi Chen

603 E Huron St, Ann Arbor, MI 48109 | (734)6048505 | brianc.boston@gmail.com | English, Chinese
<https://www.linkedin.com/in/brian-chen-1267b6220/> | <https://github.com/BrianChen0527>

Rising Junior Computer Science student from the University of Michigan. Proficient in Python, Java, C++, and OOP, with three software engineering internships and multiple large-scale projects. Experienced in CI/CD as well as writing scalable, high-quality code with good test coverage. Familiar with modern development and deployment tools such as Docker, Kubernetes, Microsoft Azure, Django, and PostgreSQL. Enthusiastic, responsible, motivated to learn new skills, and thrive in team environments.

WORK EXPERIENCE

SOFTWARE DEVELOPMENT ENGINEER INTERN

ASUS Intelligent Cloud Services, Taipei, Taiwan | 2022/05 – 2022/08

- Underwent 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 continuous integration and deployment with Azure Pipelines, and improved code quality with Sonar Cloud.
- Stored API requests in Azure SQL database, optimized data retrieval performance with Redis Cache, and implemented security measures by storing and accessing database passwords as secrets on Azure Key Vault.
- 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 the Lenovo University Talent Research Program.
- Created real-time object identification programs with pre-trained models (VGG16) 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 features to maintain the aesthetics of web pages on mobile devices.
- Tested website functionality (buttons, links, forms, etc.), tracked down translation errors, 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 3.9/4.0

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