

Brian Chen

brichen95@gmail.com | <https://brianchen.me>

Work Experience

NYDIG

Infrastructure Engineer [Python, Powershell, Terraform, CDKTF, Github Actions] May 2021 – October 2022

- Develop, deploy and maintain various scripts (written in Python/Powershell, deployed to AWS and Azure) to automate various business functions such as user onboarding/offboarding, reporting and profile/ mailing list syncing
- Coordinate with the data team to create ETL pipelines for ingesting and analyzing data across various SaaS services, creating dashboards and reports in Metabase and Tableau (ex: overall employee count/device counts over time)
- Create scripts and workflows to assist with large scale company migrations – one from Google Drive to Microsoft Sharepoint, and another from BambooHR to Oracle HCM
- Develop a proof-of-concept infrastructure-as-code deployment pipeline for Azure cloud resources (mainly Azure Automations) using CDKTF and Github/Github Actions

D. E. Shaw & Co., L.P.

Systems Administrator [PowerShell, Java, JavaScript, Python] October 2019 – May 2021

- Provide high quality and timely support for global user base, including OS/software troubleshooting in both Windows and Linux, network troubleshooting, and backoffice continuous integration/development maintenance and analytics
- Implement a data ingestion and analytics solution for the firm's Jenkins platform, enabling data analytics on firmwide usage and adoption of CI/CD via the ELK stack
- Implement a CI/CD pipeline in Jenkins utilizing both Windows and Linux agents to automate the firm's migration of tens of thousands of files across documentation platforms (from MoinMoin to Confluence)
- Redesign and develop a proof of concept for the firm's automated ticket triaging system using text analysis and machine learning in Python, alongside metrics and data visualizations in Tableau and an automated training pipeline

Systems Technician [PowerShell, Java, JavaScript] February 2018 – October 2019

- Repair, maintain and upgrade enterprise hardware including swapping network switches, building/upgrading computer hardware and installing/configuring audiovisual peripherals
- Create infrastructure scripts in PowerShell to automate auditing and various other backend functionalities
- Redesigned the firm's loaner device management system to streamline and automate workflows using a React webapp

Credit Suisse

Technical Analyst [MS Access, MS Excel/VBA, Tableau] July 2017 – February 2018

- Help design, implement and maintain an internal operations risk data repository linked to various feeds in a team of four
- Design and implement a risk analytics dashboard to easily identify and visualize trends within the company risk environment
- Explore private cloud technology and leverage Docker and Jenkins to implement a continuous integration and deployment system

Summer Technology Analyst [.NET, C#, JavaEE] June 2016 – August 2016

- Designed and streamlined an internal regulatory web application with multiple international teams using JavaEE and Oracle SQL databases, leading to CS analyzing their funds more effectively
- Collaborated in a team of four to design, implement and document an application responsible for monitoring and verifying the functionality of core internal applications through the .NET MVC framework

Education

Stony Brook University, College of Engineering and Applied Science (Stony Brook, New York) August 2013 - May 2017

- Bachelor of Engineering (B.E.) Cum Laude in Computer Engineering, Minor in Business Management
- GPA: 3.59/4.00

Awards: University Scholar, Presidential Scholarship, Dean's List

Engineering/Hackathon Projects

Homelab – I actively explore new technologies on my own time in my homelab environment Present

- Currently composed of a pfSense firewall, Synology NAS, and two physical machines running Hyper-V/Proxmox for VMs
- Majority of lab is mastered in github via .yml files and can be deployed via docker-compose, with self-hosted services such as Grafana, ELK, Home Assistant, and my own website

3Degrees – HackHarvard 2015 Hackathon Project [Android, Swift, Mathematica, Python] November 2015

- Winner of the Wolfram Alpha "Best use of Wolfram API" challenge
- Worked in a team of three to analyze thermal images of burn wounds, and utilized Wolfram's Mathematica to create a 3-dimensional reconstruction of the burn wound to more easily visualize and determine how severe the burn truly is

Skills

Programming languages

- Proficient in Python, Java, Powershell, Bash, Javascript, C#, PHP, HTML/CSS
- Familiar with Terraform HCL, CDKTF, NodeJS, MySQL, MongoDB, MATLAB,, VBA, Verilog, and Atmel assembly language

Software

- Proficient with Tabeau, ELK, Docker, Atlassian Confluence, and Adobe Photoshop
- Experienced with on-prem (Windows, Mac, Linux) and cloud (Azure, AWS, GCP) environments

Languages

- Fluent in English, conversational Cantonese Chinese, basic Mandarin Chinese