Jiun-Yan (Eric) Chen

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Work Experience

InterSystems Corporation
Senior DevOps Engineer   *Feb. 2022 – Present*

- Led a team to build a customer facing service for accessing and browsing corporate container repository.
- Implement SSO with OAuth and LDAP, and logging system for legacy corporate applications.
- Redesign multiple enterprise and production systems to be more stable and resilient, include monitoring and preemptive alerts, and setting up Infrastructure as Code pipelines for re-spins and disaster recovery.
- Create pipelines using tools like GitLab, Jenkin, and Ansible to deploy code and instantiates services to cloud platforms, including AWS, Azure, and internal private cloud.
- Designed a system to create automated source code merging based on user set schedules.

Boston University / Hariri Institute
Research Assistant   *Mar. 2021 – June 2021, Sep. 2021 – Jan. 2022*

- Designed an end-to-end application for Secure Multi-Party Computing (SMPC) Library.
  - React.js based front end website, with local processing to ensure data anonymity and security.
  - TypeScript and node.js server for storing processed metadata and deployment.
  - Ansible playbooks for cloud server spin-ups and deployments on AWS, GCP, and Azure, connected to a custom designed RESTful API.

Google LLC
Software Engineer Intern   *June. 2021 – Aug. 2021*

- Refined internal cost attribution data-pipeline.
  - Improved data quality and established a normalized metric to reduce sensitivity to upstream anomalies.
  - Increased cost coverage of the data-pipeline by 12.5% by expanding scope to other resources.

Shopee Limited
Data Engineer Intern   *Mar. 2020 – Aug. 2020*

- Design and implemented a system that performs item similarity matching between company and competitor's product portfolio. Written using C# .NET core.
  - Provided a webpage with Blazor and RESTful for users, and a python interface for automations.
  - Connects with Entity Framework core to MySQL DB, updated by crawling competitor's websites.
- Created a custom machine learning model that calculates the optimal boxes sizes for warehouse uses.
  - Monthly savings of 10% in material costs, 2% in logistic costs, and 6% increase in usage.

Education

Boston University (BU)   Boston, MA, USA
Master of Science in Computer Science (Current cumulative GPA:3.86/4.0)   *Sept. 2020 – Present*

- Course Highlights: Mobile App Development, User-Centric System Design, Network Security

Personal Project

Self Hosted Homelab

- Self developed suite using Next.js/React and Express, with s3 compatible backup solution to Backblaze B2, OAuth login for hosted authentication server Authentik, and additional server maintenance tools.
- Proxmox HyperVisor with pi.hole DNS and Ubuntu Server
- NginX, certbot and Cloudflare for managing SSL certificates, Domain Name Routing, and Forward-Auth.
- NextCloud for hosting family photos and files with integration of multiple 3rd party extensions.

Additional Skills

- Language: Mandarin (Native), English (Fluent, TOEFL 110/120, GRE 325/340)
  - *9 years were spent growing up in an English-speaking country due to parent's career.*
- Programming Languages: C#, Python, SQL, C++, Java, R, Visual Basic, VBA, Javascript, Rust
- Familiar Tools and Frameworks: Unity, ASP.NET, WPF, WinForms, sklearn, .NET core, Docker