Cheng-Chuan(Zeno) Peng

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SKILLS

Programming Languages: Python3, C#, Node.js, Java, Go, Shell Script
Backend: .NET Core/MVC, Python Flask/Django, Express.js, Spring Boot
Databases: MySQL, MSSQL, MongoDB, Hbase, Hive, Snowflake
Tools and Platforms: Linux, Git, AWS, Azure, Docker, OpenShift, Hadoop, Splunk, NiFi, Airflow, Opentelemtry

WORK EXPERIENCE

Splunk San Jose, CA
Software Engineer Intern, Observability Organization, Opentelemetry *May 2023 – Aug 2023*
- Contributed to the **open source** project "opentelemetry-collector-contrib" within **OpenTelemetry** by refactoring the library, transitioning from opensus to pdata, resulting in a 20% increase in data measurement speed.
- Developed and maintained one of receiver within **OpenTelemetry** using **Golang, Kubernetes, and Kafka**.
- Conducted 2 flaky tests through **CI/CD pipeline** on MacOS and Windows system to ensure availability.

Advantech Taiwan
Backend Engineer, WISE-Marketplace *Jul 2021 – Apr 2022*
- Designed and built an education search system for users to view, and update courses with **Azure Pipelines**, **Azure Blob**, **.NET MVC**
- Optimized SQL to speed up data access by 40% for products and reduced APIs response size by 20% via **.NET MVC**
- Designed APIs for users to manage product items on web platform, e.g. image uploading by **Azure Cosmos DB, Azure Blob, MSSQL**, **.NET Core**

Titansoft Taiwan
Backend Engineer, Game Development *Feb 2021 – May 2021*
- Provided users with authorizations, integrated APIs, and connected games via **.NET Core**, **Redis**, **GRPC**, **GCP Spanner**
- Recorded players' status by **GCP Pub/Sub** to collect transaction data for tracing players' points

Micron Technology Taiwan
Data Engineer, Smart MFG & AI *Dec 2019 – Jan 2021*
Project: WebApp: Authentication System
- Validated 80 user identities per day on a web application with JWT token and APIs using **Flask**, **Gunicorn**
- Monitored web system and control resources by setting up **Docker** and **Openshift** for resource control and cronjob
- Rewrote 5 yield APIs for bridging integrated platform

Project: Fab Yield System
- Created 17-table (5GB/day) ETL pipelines with **NiFi, MySQL** to place industry data on **Hadoop**, **Hive**, **Hbase**, **Snowflake**
- Reduced query time by 60% by joining and aggregating different views on **Hive**
- Monitored 12 data and developed dashboards to visualize data, ensuring data quality and monitoring website health using **Splunk**
- Collaborated with global team to resolve 10+ data pipeline issues (**MySQL**, **MSSQL**, **Snowflake**)
- Utilized **Airflow** to automate triggering of APIs, transmission data to Splunk during web application usage

Delta Electronics Taiwan
Software Engineer Intern *Jul 2017 – Aug 2017*
- Built knowledge extraction system by bridging Java Packages and **NLP APIs** through **Flask** and **Jpype**
- Researched and built a Chinese Error correction system through deep learning models
- Collaborated with summer interns to generate product ideas and got 1st prize

EDUCATION

Carnegie Mellon University Mountain View, CA
Master of Science in Software Engineering *Aug 2022 – Present*
Courses: Foundations Software Engineering, Foundations Computer Systems, Software Design and Architecture, Software Testing

National Tsing Hua University Taiwan
Master of Science in Information Systems and Applications *Sep 2016 – Jun 2019*
- Courses: Programming, Operating Systems, Game Theory, Cloud Programming, Advanced Databases, Natural Language Processing, Data Mining, Machine Learning, Deep Learning, Multimedia Music Design

National Chengchi University Taiwan
Bachelor of Journalism *Sep 2013 – Jun 2016*
- Courses: Data Structure, Algorithms, Database Management Systems, Network Introduction, Programming Language, XML Applications, Probability

Academic Projects

SmartWrite / Thesis / National Tsing Hua University *Sep 2018 – Jan 2019*
- Created Chinese Interactive Writing System for learning Chinese sentences by **Django**
- Generated Chinese labels by Stanford Parser, **Hadoop**

Trash Monitoring / Cloud Programming / National Tsing Hua University *Feb 2017 – Jun 2017*
- Created a website for monitoring amount of waste in classroom by **Node.js, AWS Lambda/SQS/RDS/S3, Google Map API**
- Used **AWS Cognito** for administrator signing up to check trash amount