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 Software Engineer Intern San Jose, CA

May 2023 - Aug 2023

- Contributed to the **open source** project "opentelemetry-collector-contrib" (2.1k stars) within OpenTelemetry by refactoring its core library, transitioning from opensus to pdata, catalyzing a robust 20% increase in data measurement efficiency
- Developed and maintained one of receivers within OpenTelemetry using Golang, Kubernetes, and Kafka
- Orchestrated 2 flaky tests through CI/CD pipeline on MacOS and Windows systems to ensure availability

Advantech Taiwan Iul 2021 - Apr 2022

Backend Enaineer Architected, implemented education system for 100+ users and update courses by Azure Pipelines, Azure Blob, .NET MVC

- Optimized MSSQL to speed up data access by 40% for product retrieval and reduced APIs response payloads by 20% via .NET MVC
- Designed APIs for users to manage product items on web platform, integrating functionalities like image storage by Azure Cosmos DB, Azure Blob, MSSQL, .NET Core

Titansoft Taiwan

Backend Engineer

Feb 2021 - May 2022

Facilitated user authorizations, integrated APIs, and connected games via .NET Core, Redis, GRPC, GCP Spanner

Cataloged player metrics via GCP Pub/Sub, enabling transaction data assimilation for tracking player points

Micron Technology Taiwan Software Engineer Dec 2019 - Jan 2021

Project: WebApp: Authentication System

- Authenticated 80 users' identities daily on a designed web application with JWT token, APIs using Flask, and bolstered Gunicorn
- Monitored web system by deploying Docker and Openshift for resource allocation and scheduled tasks by cronjob
- Refactored 5 yield APIs, ensuring interoperability and integration on the platforms

Project: Fab Yield System

- Deployed 17-tables (5GB/day) ETL pipelines with NiFi, and MySQL to store industry-specific data on Hadoop, Hive, HBase
- Reduced query time by 60% by joining and aggregating different views on diverse **Hive** views
- Monitored 12 data and developed dashboards to visualize data, ensuring data quality and monitoring website health using Splunk
- Collaborated with global team to troubleshoot and resolve 10+ data pipeline issues across MySQL, MSSQL, Snowflake platforms
- Integrated Avro to push structured and semi-structured data into Snowflake, ensuring data integrity and consistency
- Employed Airflow to automate triggering of APIs, transmission data by Splunk to track web application dynamics

Delta Electronics Taiwan

Software Engineer Intern

Iul 2017 - Aug 2017

- Built knowledge extraction system by integrating Java Packages and NLP APIs through Flask and Jpype
- Researched and built a Chinese Error correction system through deep learning models

EDUCATION

Carnegie Mellon University

Mountain View, CA

Master of Science in Software Engineering

Aug 2022 - Dec 2023

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 GPA 4.0/4.3

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 GPA 3.69/4.0

Sep 2013 – Jun 2016

Courses: Data Structure, Algorithms, Database, Network Introduction, Programming Language, XML Applications, Probability

Academic Projects

Course Meeting Room / Software Architecture / Carnegie Mellon University

- Setup Docker to build microservice infrastructure with API gateways, using Node.js for chain of responsibly to handle API requests
- Developed and integrated user identity validation features using Swagger for API, Flask, MongoDB
- Implemented a real-time chat interface using JavaScript, enabling user interaction within a chat room environment

Trash Monitoring / Cloud Programming / National Tsing Hua University

Feb 2017 - Jun 2017

- Conceptualized and launched a website for monitoring amount of waste by Node.js, AWS Lambda/SQS/RDS/S3, Google Map API
- Utilized AWS Cognito for administrator authentication, ensuring a secure way for waste metrics analysis