ustin Chen

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Education

University of Waterloo

CANDIDATE FOR BASC IN COMPUTER ENGINEERING, 85% CUMULATIVE AVERAGE

Work Experience _____

Facebook

SOFTWARE ENGINEER INTERN

• Working in the Remote Presence org, responsible for the client-side audio/video calling platform for Facebook and Messenger

Splunk

SOFTWARE ENGINEER INTERN

- · Enhanced Splunk's release orchestration engine by extending support & testing for new Splunk architectures and adding cloud agnostic compatibility for both AWS and GCP, increasing support for automated upgrades by 15% across the cloud fleet
- Owned development of load testing suite in Go and Kubernetes for the release orchestration engine, automating a 12+ hour manual process to provision, upgrade, and deprovision a custom fleet of cloud instances
- Led the investigation and resolution of several Kubernetes operator issues related to unexpected pod restarts, race conditions between controllers, and reconciliation loops, proactively preventing issues with production fleet upgrades

Apple

SOFTWARE ENGINEER INTERN

- Reduced runtime of data analysis program by 96% through multi-processing statistical computations, optimizing Pandas usage, and eliminating I/O bottlenecks, significantly decreasing the approval time for hardware builds from 1+ hours to under 2 minutes
- Created Python package to pre-process CSV data for pipelines and convert data between different specifications for cross compatibility between internal analysis tools
- Implemented PTR analysis in a data pipeline to screen hardware validation data and detect issues with the measurement systems
- Built a modular performance benchmarking tool to automate benchmarking of code changes in **CI pipelines** and visualize results

Capital One

SOFTWARE ENGINEER INTERN

- Led the development of a telemetry system for internal packages, with features including a CLI tool, API, and email service
- Designed, built, and deployed a REST API to monitor package consumption, using serverless architecture on AWS Lambda with ALB/Route53 for load balancing & routing, and DynamoDB for noSQL database solution
- Developed reusable React components with 100% unit test coverage for Capital One's in-house UI library, reducing the size of frontend codebases by up to 60%

IBM

SOFTWARE ENGINEER INTERN

- Built a message broker using Node and Redis, enabling developers to post service-status notifications to the IBM Cloud web console quickly and securely using Slack
- Developed new front-end features in React for Open Toolchains, IBM Cloud's DevOps offering used by 20 million developers

Projects

Autocritic

PYTHON • DJANGO • SKLEARN

• Developed a Diango application that processes search queries for films and leverages sentiment analysis to predict their ratings

Watch Along

NODE • WEB SOCKETS

Web app Aug. 2018

• Built a content consumption platform that allows multiple users to watch online videos synchronously with each other

Skills

Languages: Javascript, Typescript, Python, Golang, Java, PHP, Scala, C/C++

Fullstack: Node.js, React.js, Gatsby.js, Express.js, GraphQL, Flask, Django, MySQL, MongoDB, DynamoDB Technologies: Linux, Git, AWS, GCP, Thrift, Kafka, Redis, Docker, Kubernetes, Hadoop, Spark

Seattle, USA (Remote)

Aug. 2021 - Present

San Jose, USA (Remote) Jan. 2021 - Apr. 2021

Cupertino, USA (Remote) Jun. 2020 - Aug. 2020

Toronto, Canada Sep. 2019 - Dec. 2019

Natural language processing



Sep. 2017 - Apr. 2022

Waterloo, Canada

Toronto, Canada Jan. 2019 - May 2019