Chris Tian

ctian.2001@gmail.com

(650) 475-6985

chriswtian.com

github.com/ctian1

linkedin.com/in/cwtian

Education

University of California, Irvine   Irvine, CA
B.S. in Computer Science – GPA: 3.89   September 2019 – December 2022 (expected)

Experience

Amazon.com   Seattle, WA
Software Development Engineer Intern   June 2021 – September 2021
- Added memory, latency, and other usage metrics to justify an optimization/future-proofing modification
- Developed a scheduled task to download data and then build, GZIP, encrypt, and upload a large read-only DB **(Fargate, S3, AWS CDK)**
- Improved a 1M+ max TPS service by switching in-memory cache to read-only DB, reducing node startup time by up to 30min

Commit the Change (UCI Organization)   Irvine, CA
Software Developer | Project Lead   September 2020 – Present
- **Child Creativity Lab Video Platform:** Built web app allowing admins to create redeemable codes for customers to exchange for video lessons. Codes are provided to customer in kits purchased separately. **(Mongo.js, Express, React)**
- **Child Creativity Lab Waiver Platform:** Contributed to web app allowing volunteer to sign waiver PDFs online, with dashboard allowing admins to edit/manage waivers and templates. **(Mongo.js, Express, React)**

Anomali Inc.   Redwood City, CA
Software Engineering Intern   June 2019 – September 2019 and June 2018 – September 2018
- Developed daily service that identifies trending malware entities and indicators using daily feeds such as Twitter **(Python, SQLite)**
- Maintained and enhanced IP address malicious rating ML model with 27 TB+ data sources **(Apache Spark, Databricks)**
- Created a simple data visualization tool to view IP address malicious scores over time **(Vue.js, Java, Eclipse Vert.x, ElasticSearch)**

Projects

Overkill   github.com/ctian1/overkill
Desktop app allowing users to log in to their VALORANT account and view their daily ingame shop
- Created simple multi-platform desktop app that allows users to easily switch between saved accounts **(Electron, React)**
- Made code open source, released downloads, and setup CI/CD builds for macOS/Windows/Linux **(Travis CI, GitHub Actions)**

chronovod   github.com/ctian1/chronodocker
Web app for creating highlight videos from live stream VODs made in collaboration with a 260k+ YouTube creator
- Designed and implemented a distributed background video rendering system **(Flask, jQuery, Docker, FFmpeg)**
- Single-handedly dramatically decreased video rendering time and cost through efficient use of the AWS platform **(EC2, ECS, Lambda)**
- Implemented a smart detection system to extract highlight clips from professional gameplay VODs **(NumPy, Keras, AWS SageMaker)**

Packer Travel Organizer
Simple web app allowing users to plan and share group trip itineraries
- Added security middleware and developed search, friends, and notifications features **(React, Express, Mongoose, Auth0, express-jwt)**

Novirus
COVID-19 contact tracing mobile app created at HackUCI 2020
- Built iOS app that tracks the user's location and displays potential infectious contact points with other sick users
- Designed mobile interface with **Sketch, React Native, Mapbox** and created backend using **Flask**

Skills

Languages
- Python, Java, JavaScript/Node.js, SQL, HTML/CSS, C++, Bash, LaTeX, Go

Technologies and Frameworks
- AWS (EC2, Lambda, ECS, SageMaker, S3, CloudWatch, CloudFront), React, React Native, Expo, Vue.js, Flask, Express.js, OpenCV, Apache Spark, Expo.js, Docker

September 10, 2021