

# Chris Tian

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## Education

**University of California, Irvine**

*B.S. in Computer Science – GPA: 3.89*

Irvine, CA  
September 2019 – December 2022 (expected)

## Experience

**Amazon.com**

*Software Development Engineer Intern*

Seattle, WA  
June 2021 – Present

- Adding memory and latency metrics to justify a possible optimization/future-proofing modification
- Developing a periodic task to build and upload a large read-only DB (**Fargate, S3**)
- Improving a 1M+ max TPS service by switching in-memory cache to read-only DB to reduce node startup time and memory load

**Commit the Change (UCI Organization)**

*Software Developer / Incoming Project Lead*

Irvine, CA  
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.**

*Software Engineering Intern*

Redwood City, CA  
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

June 22, 2021