

Andrew Anthony Gerst

Senior Software Engineer

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- I am looking for something exceptional!
- I was Passport's 12th employee! Now 300+ and acquired 3 companies!
- I would love to learn about your team's culture and challenges!
- Feel free to reach out if you have any questions!
- Let's discuss what you are looking for to see if I would be an excellent fit!

Skills

Main: dynamodb, javascript, jest, lambda, node, react, python, serverless, swift

Like: adt, agile, android, ansible, apache, arduino, asana, auth0, aws, bash, ble, bootstrap, bower, browser-sync, browserify, c, casperjs, chai, ci/cd, cloudwatch, coffee-script, coffeefy, css, debowerify, dojo, dynamodb, ember, express, fogbugz, git, github, gitlab, gradle, graphviz, gulp, gwt, hadoop, hdfs, html, istanbul, jade, java, javascript, jest, jira, jquery, jscs, jshint, junit, kotlin, lambda, less, make, matlab, microservices, migrations, mips, mocha, mysql, nfc, nginx, nightmarejs, node, npm, nvm, oauth, parquet, pci, phantomjs, phpcs, pug, python, qrcode, rally, raspberry pi, react, redbean, redis, redmine, rest, ruby, sass/scss, scrum, serverless, socket.io, spark, stylus, swift, testflight, titanium, ubuntu, unix, vagrant, vi/vim, web-workers, websockets, workerify, wrk, wsdl, xcode, yamify, yaml, youtube-api, zsh

Experience

Senior Software Engineer – [Passport](#) | Mobility Software Platform

December 2013 - April 2020

- Developed the legacy monolith system using python, php, and mysql
- Developed the legacy mobile apps using titanium and java
- Developed the legacy web apps using jquery and gwt/java
- Developed the legacy strings system to handle internationalization
- Rewrote the ios parking app in native swift
- Created the ios transit app in native swift
- Maintained the ios swift apps through multiple swift versions
- Created the legacy local dev environment makefile
- Created the vagrant dev environment using ansible which helped automate the configuration for production
- Created the whitelabel apps on android, titanium, swift, web platforms
- Documented all of the systems and processes to make onboarding more efficient
- Created internal tools and scripts to make all developers more efficient
- Created an ansible playbook to make setting up and maintaining macbooks more efficient
- Maintained the legacy python rate engine
- Created the modern rate engine on aws lambda using node and dynamodb
- Mentored peers and junior engineers that has helped them develop and advance their careers
- Evaluated candidate programming challenge submissions
- Interviewed candidates for roles of all levels including the vp of engineering
- Created database migrations repo, process, and scripts
- Automated the build and archive process for ios app store releases
- Analyzed data and created visualizations for various metrics
- Transformed and imported the zone, rate, and restriction data for multiple operators
- Created the swagger api schema repo
- Created various shared npm packages to use in multiple microservices
- Created microservices from scratch to migrate the monolith into a scalable architecture
- Created the fleet admin portal in react
- Load and stress tested the apis to measure performance metrics
- Created various comparison scripts to ensure backwards compatibility when updating services
- Various other things...

Computer Programmer – [UNC Chapel Hill Computer Science Department](#)

November 2011 - June 2012

Accessible YouTube is an interface to YouTube designed for people who access their computers via either 2 switches for children with disabilities or a mouse.

Education

Bachelor of Science (B.S.) Computer Science – University of North Carolina at Chapel Hill

2011 - 2013

Won second place in a programming competition hosted by the founders of Passport Parking. I was a first year undergraduate student competing against mostly graduate students. My team and I placed third out of eight teams in Facebook's 2012 North Carolina Hackathon hosted at Duke University.

Projects

Log Reader – <https://github.com/Gerst20051/log-reader>

Tool for streaming server logs to the browser for filtering, highlighting, excluding, color-coding, and adding syntax highlighting to json objects and mysql queries.