

Gabriel Chapman (Chappy) Asel

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EXPERIENCE

- Sep '19 – Present **Xevo** – SDE I (part time) Seattle, WA
Jun '19 – Sep '19 – SDE Intern
- Collaborated with the data science team on in-house tools to congregate and visualize user telemetry data
 - Worked on developing SQL / Python transformation scripts and jobs to transform raw user telemetry into tangible data points for future use predictive machine learning models
 - Designed and implemented a Snowflake / AWS pipeline to take processed telemetry data and determine user POIs via reverse geocoding running periodically on a Node.js Lambda
 - Developed a DBSCAN-esque MySQL clustering algorithm to aggregate this data into useful high-order insights including user profiles (patent pending)
 - Gained expertise in Snowflake, AWS, Python Flask, Terraform, Docker, K8S, Mixpanel, and more
- Jun '18 - Sep '18 **Lime** – Software Engineering Intern San Francisco, CA
- Led a complete redesign of the iOS app UI, unifying and simplifying the company design language
 - Implemented a persistent rating system, increasing usage by 15% and enabling new performance metrics
 - Refreshed the in-app referral system to use Branch.io deep links, increasing key user acquisition metrics
 - Designed and programmed an in-trip zones interface, leading endpoint refactoring efforts to allow for warning users of potential fines that could be faced based on no-service and no-parking zones
 - Led design and implementation efforts of a backend-driven animated 'how to ride' screen, allowing for per-region rules and regulations and helping the government relations team meet per-city requirements
- Oct '17 - Mar '18 **Suplari** – Engineering Intern Seattle, WA
- Developed a Swift language card-based supplier database normalization app to assist in training for a categorization machine learning model implementation
 - Implemented an Auth0-based custom authentication system to mesh with existing sign in methods
 - Developed an accompanying Python Flask Google Cloud Endpoints backend for on-the-fly changes to categorization parameters and storage / processing of normalization results
- Summer 2016 **Gigwalk** – Software Engineering Intern San Francisco, CA
- Developed a public JavaScript API for use both internally and externally by third parties, which now comprises Gigwalk's primary source of business
 - Designed and programmed 100+ unit tests for CircleCI to ensure public API stability
- Summer 2016 **Rokid** – Product Testing Intern Hang Zhou, China
- Shadowed artificial intelligence, deep learning, and scripting development efforts
 - Assisted with internationalization / localization & multilingual product testing in preparation for US launch

PROJECTS

- Aug '17 - Present **Weightlifting App** – iOS App Store itunes.apple.com/us/app/id1266077653
- Utilizes Amazon Web Services and Core Data to store, analyze, and share users' workouts
 - Designed a Keras deep neural network (exported to CoreML) to predict user workout names
 - Currently transitioning a Node.js backend to further extend backend functionality
 - 8.2k+ installs, 750+ MAU, 4.4 star rated, top-10 weightlifting app
- Aug '16 - Jan '19 **Homework App** – iOS App Store itunes.apple.com/us/app/id1097438761
- A streamlined app to organize, keep track of, and remind users of upcoming homework assignments
 - Acquired by Haystack AI on January 23rd, 2019
 - Upon acquisition: 338k installs, 63k MAU, 4.7 star rated, #1 global HW app, top-60 productivity app

EDUCATION

- 2017 - Present **University of Washington** Seattle, WA
Junior at the Paul Allen School of Computer Science & Foster School Entrepreneurship Minor. Six-time dean's list recipient. Courses include: CSE 311, CSE 331, CSE 332, CSE 341, CSE 351, CSE 473; GPA: 3.83
- 2013 - 2017 **Thomas Jefferson High School for Science & Technology** Alexandria, VA
Nationally ranked magnet school focused on science & technology. Developed a semi-autonomous go-kart during senior year in Automation and Robotics lab. Courses include: AP Computer Science (5), Artificial Intelligence, Analog & Digital Electronics, Robotics, AP Micro / Macro (5 / 5); ACT: 33, GPA: 4.3

SKILLS

- Programming capability in C, Objective C, Swift, HTML, Java, JavaScript, Python, PHP, SQL
- Proficient with Github, GitLab, Bitbucket, Jira, InVision, Slack, Google Docs Suite, Microsoft Office Suite
- Experience with AWS (S3, DynamoDB, Lambda, IAM), Google Cloud (Endpoints, Datastore, Compute), Snowflake, Terraform

PERSONAL

- Boston & DC sports fan, five-time Tough Mudder finisher, two-time century bike finisher, occasional mountain climber
- Four-year high school basketball player, brother at Delta Tau Delta, Gamma Mu chapter, avid weightlifter and nutritionist