Gabriel Chapman (Chappy) Asel

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EXPERIENCE

Jun '19 - Present **Xevo** – SDE Intern **Seattle, WA**
- Worked with the data science team on in-house tools to congregate, normalize, translate, and visualize data
- Working on developing SQL / Python data transformation jobs to transform raw user data into meaningful user profiles for use in predictive machine learning models
- Working on processing these profiles into useful high-order insights using machine learning
- Gaining expertise in key technologies including AWS, Snowflake, TensorFlow, Python Flask, JupyterLab, Docker, Kubernetes, Terraform, Mixpanel, and more
- Languages I'm working with: SQL, Python, Javascript, HTML, Go

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 to remind users to rate their rides, increasing feature usage by nearly 15% and enabling new performance metrics
- Refreshed the in-app referral system to use Branch.io deep links, expanding incentives for referring friends and 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-based 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
- 7.5k+ installs, 750+ MAU, 4.3 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. Courses include: CSE 154, CSE 311, CSE 331, CSE 332, CSE 341, CSE 351, CSE 391, 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
- Self-taught expertise in Adobe applications including Photoshop, Illustrator, etc.
- Proficient with Github, GitLab, Bitbucket, Jira, InVision, Slack, Google Docs Suite, Microsoft Office Suite
- Experience with AWS (S3, DynamoDB, Lambda, IAM), Google Cloud Platform (Endpoints, Datastore, Compute), Snowflake

PERSONAL

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