

Albert Zhong

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Education

University of Washington, Seattle, WA Sept. 2019—June 2022
B.S Computer Science, B.S Mathematics GPA: 3.79

- Activities: UW ACM, ICPC, DubHacks, The Data Open (Citadel Securities)
- Relevant Coursework: Data Structures & Parallelism, Algorithms, Software Design & Implementation, Systems Programming, The Hardware/Software Interface, Honors Calculus & Linear Algebra

Work Experience

Software Engineer Intern June 2020—Sept. 2020
Pulumi Corporation Seattle, WA

- Contributed to Pulumi, an open-source platform that enables developers to declaratively define and provision cloud infrastructure using familiar programming languages
- Built and shipped a code generator in Go that produces strongly-typed Kubernetes CustomResources based on CustomResourceDefinitions (CRDs), allowing engineers to easily manage complex CRDs
- Auto-generated Pulumi libraries for TypeScript, Python, Go, and C# for 150+ Kubernetes Operators
- Latest releases: github.com/pulumi/crd2pulumi, github.com/pulumi/pulumi-kubernetes-crds

Projects

ecoBay (winner at the Caltech hackathon) Mar. 2020
devpost.com/software/ecobay Pasadena, CA

- First place winner at HackTech 2020 for Best Environment & Sustainability Hack
- Created a Chrome extension that parsed shopping pages with Google Cloud NLP and returned similar, but local eBay products to minimize carbon emissions from shipping
- Wrote a Python API that queried item listings from eBay and a JavaScript frontend to render them

barbell2go (winner at the Rice hackathon) Sept. 2020
devpost.com/software/barbell2go-fubsh2 Houston, TX

- First place winner at HackRice X for the Bill.com API Challenge
- Developed a web app for gym equipment home delivery using Python and Django
- Integrated the Bill.com API to process payments and the Google Maps API to handle delivery routing

Quadrangle Dec. 2019
github.com/albert-zhong/quadrangle-me

- Launched quadrangle.me, an anonymous online forum for verified college students
- Built backend forum software and email verification using Python and Django
- Used modified preorder traversal trees to efficiently load nested comments from a PostgreSQL backend

Seagull Sept. 2019
github.com/albert-zhong/seagull

- Implemented a linear regression model to predict personality traits across US cities based on public tweets
- Created a data pipeline in Python that streams training data from the Twitter API to a MySQL database

Software Skills

Programming Languages	Python, Go, Java, JavaScript, TypeScript, C
Backend Frameworks & Tools	Django, PostgreSQL, Kubernetes, AWS, Git
Frontend Frameworks & Tools	React.js, Redux, jQuery, AJAX, HTML/CSS, Bootstrap