

# Vinny Senthil

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## Education

B.S. in Software Engineering at San Jose State University

Dec 2019

## Skills

Languages: Python · JavaScript · Scala · Java · HTML5/CSS  
Frameworks: Node.js · Flask · Django · React · Redux  
Databases: PostgreSQL · MongoDB · MySQL  
Tools: AWS · GCP · Nginx · Docker · Agile · Git · Bash · Jira

## Experience

Developer Programs Engineer Intern, **Google**

Jun – Aug 2019

- Worked in Google Cloud on Serverless and collaborated with all members of the product team
- Built the PHP Functions Framework that turns user code into an HTTP endpoint via Nginx and Docker
- Enabled users to deploy on Cloud Run or Kubernetes in minutes to create auto-scaling functions
- Initiated the process of **open-sourcing my framework** on Google's GitHub and Packagist.org
- Produced a YouTube video explaining the Functions Framework to developers, coming mid-September

Software Developer, **Gratis Food**

Jan – Jun 2018

- Created a cross-platform mobile application using Node.js, React Native, and Redux in an Agile setting
- Developed bulk push notifications using Firebase Cloud Messaging and iOS/Android device tokens

## Projects

Fable

*URL on request*

Enterprise knowledge-sharing platform for data scientists to publish Jupyter notebooks within a company

- Built 4 microservices in Node.js, Python, React and deployed to AWS using an ECS cluster + Docker
- Wrote Lambda function triggered by new user posts in S3 and RDS that converts image-heavy Jupyter notebooks to HTML in-place with a **95%** smaller file size in **3 seconds**
- Implemented 1-click new workspace creation with new DB, auth keys, Okta server, and S3 bucket
- Architected all the PostgreSQL schemas to manage users, posts, views, tags, metadata, session data

Abode

abode.city

A hotel booking site proof-of-concept with real hotels, reservations, cancellations, reviews, rewards points, etc.

- Built with React.js, Express.js, Node.js, and MongoDB (MERN Stack)
- Led backend development, data engineering, and built many critical REST API endpoints
- Wrote Python web-crawler to store every hotel in the 20 most visited US cities using MongoDB

DeltaHedge

deltahedge.org

Platform to research recent stock transactions of hedge funds with over \$100M in assets under management

- Wrote Python + Selenium scripts retrieve and compute data from quarterly filings from SEC site
- Built using Django and PostgreSQL storing hundreds of thousands of stock transactions
- Leveraged AWS Lambda to automatically update new transactions, ticker symbols, and private funds