GAUTAM JETHWANI

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EDUCATION

Master of Science, Computer Science, University of Southern California (USC) — Expected May 2021

Bachelor of Science, Computer Science, University of Southern California (USC) — August 2016 – May 2020

TECHNICAL SKILLS

C++ | Java | Python | JavaScript | Typescript | GO | Node.js | Express | React | MySQL | MongoDB |D3 | PostgreSQL | Relational Databases | AWS | Large Scalable Systems |Server Performance | Machine Learning | Computer Vision | Augmented Reality | Git | Data Visualization | Chrome Extensions | Backend | Full Stack | Embedded Systems | Arduino

INTERNSHIP/WORK EXPERIENCE

Atlassian — May 2020 – August 2020
Software Engineering Intern
- SWE on the Confluence Analytics team that shows user facing analytics for Confluence content
- Reduced p99 latency of slow requests from 1m to 11s by performing database query optimizations and extensively researched other avenues for increasing speed.
- Ran a script on the production database to safely remove 25% of unnecessary data. Used Splunk and SignalFx to monitor the job as it ran.

Kemuja.com — December 2019 – Present
Founder
- Founded an e-commerce website that specializes in watches and timepieces and sells to the South East Asian market, launching August 2020
- Co-ordinated and led developers, designers, investors and suppliers
- Made critical choices about technological stack and which technologies to use

WRENCH Project – USC Information Sciences Institute — September 2018 – Present
Software Engineer
- Built a dashboard that allowed users of a workflow management system to generate user-friendly graphs and tables from simulation results
- Utilize the D3.js library to generate graphs and simulation output
- Complete ownership and management of code to maintain dashboard operability

Grab, Singapore
Software Engineering Intern — May 2019 – August 2019
- Developed a platform and user interface that improved workflow and operations of Grab tech support staff
- Implemented a logging system that tracked production-level changes made by tech support personnel
- Implemented a process for approving customer requests to change taxi types that improved the customer experience and decreased the number of mistakes

Grab, Singapore
Software Engineering Intern — May 2018 – August 2018
- Part of a team that developed a platform that allowed various technical teams to test new features and potential platform changes
- Implemented functionality to allow JavaScript to be executed on the platform's server and generate dynamic results.
- Improved efficiency for teams conducting experiments that required running code

USC Viterbi School of Engineering — August 2017 – May 2018
Teaching Assistant
- Provided support to assigned Professors in two courses, Intro to Web Publishing and Managing Data in C++
- Assisted Professor in helping students succeed in the classroom by reviewing lessons one-on-one or in small groups

PROJECTS

Timbre Chats
- Built the backend from the ground up for a startup that does voice-based chats. I made all architectural decisions and constructed the stack myself
- Wrote the entire codebase and optimized it so that it is completely secure from attackers and can scale up to thousands of users
- Used Express, MongoDB and AWS S3

Standard Industries Shingle Defect Detector
- Worked on a team that developed a computer vision algorithm for Standard Industries that would use a camera to detect manufacturing defects in their roofing shingles in real time on their production line
- Used Python and edge detection and edge detection algorithms

Fresh2Go
- HackSC 2020 Runner Up
- Built a website that will let you take a picture of produce and it will use AI and computer vision to tell you if it's fresh or rotten
- Used Keras, TensorFlow, Numpy, Python and Flask

USC WebReg Super Schedule
- Built a Chrome extension that allows USC students to visualize how classes will fit into their schedule.
- Used Javascript and Chrome API

Trello Updater
- Created an Atom package that creates Trello cards out of code comments.
- Published on Atom's website and has 117 downloads at time of writing

SongQ
- Developed an app that allows guests to request songs on Spotify using Spotify's API. The host can review and accept or reject the request. Hosted at songq.io
- Used Express, React, Node, MySQL, AWS and Heroku.

Smart Sleepmask
- Created a sleep mask that tracks movements within a specified timeframe. The mask detects movements and then wakes up the subject at the lightest point of sleep.
- Used Arduino, C, EagleCAD And PCBs