

Gavin Bains

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Work Experience

Tesla Inc.

Software Engineer Intern

Fremont, CA
May 2019 - Aug. 2019

- Collaborated on all stages of systems development lifecycle, from requirements gathering to production releases
- Implemented new features and bug fixes to boost performance for Tesla Retail Tool in React and PHP
- Designed and developed tools to perform Kubernetes analytics and asynchronously interface with Salesforce in Python
- Built time-critical applications in Go and React for Tesla DMS

Autonomous Networks Research Group

Blockchain Researcher

Los Angeles, CA
Aug. 2018 - Present

- As a member of USC Makers, designed glove to monitor and analyze student engagement in classrooms
- Research Token Curated Registries to solve Content Curation in Smart Cities
- DARPA- and Boeing-funded research to decentralize drones and distributed computing

IBM

Software Engineer Intern

San Jose, CA
May 2018 - Aug. 2018

- Designed, built, and trained asset classifier with Scikit and Watson Understanding for Natural Language Processing
- Programmed path-finding protocols for IBM Pepper to lead new hires around the campus using NAOqi Python
- Collaborated with Watson Knowledge Studio team to build machine learning features on IBM Cloud
- Presented Machine Learning model, report-analyzer, and analysis of competitive landscape to VP of Development, Director of Hybrid Cloud, and executive Hybrid Cloud Team

Hoverstate

Software Developer Intern

Oakland, CA
May 2017 - Aug. 2017

- Met with CEO on weekly basis to provide detailed project report and milestone updates.
- Gathered and defined customer requirements to develop clear specifications for creating well-organized project plans.
- Led team of 4 to design and build a communication platform for pharmacies and doctors using Laravel PHP and AngularJS

Projects

Dash (HackSC)

April 2019

- Developed smart dashcam that uses a phone's camera to automatically identify and populate a map interface with traffic data

Reddit for Desktop (Scope)

Sept. 2018

- Utilized ElectronJS and React to port Reddit into a desktop application

Sherlock: Watson-Powered News Delivery (IBM Hackathon)

July 2018

- Machine Learning news analysis with Watson and IBM Cloud

Sozu (LavaLab)

Feb. 2018 - May 2018

- Designed and implemented video journaling iOS app in Swift to streamline millennial introspection

AgriWave (HackCU)

Feb. 2018

- Developed IoT platform to transmit agricultural data from remote areas of the world without Wi-Fi connection

Smart Fridge (SB Hacks)

Jan. 2018

- Led a team of three to develop a fridge capable of using image recognition to send recipes to your phone

Skills

Programming Languages: C++ , Java, Python, Go, Swift, Javascript, HTML/CSS, Angular, Node, React

Tools/Frameworks: Laravel, Ethereum, Jenkins, Twilio, OpenCV, Unity, Postgres, Hasura, Elastic

Interests: Surfing, Music, SciFi/Fantasy

Education

University of Southern California, Viterbi School of Engineering

May 2020

BS Computer Engineering and Computer Science

Minor Cinematic Arts - Game Design Emphasis

Leadership

Overlooked Inc.

Co-Founder and CTO

Oct. 2018 - Present

Overlooked utilizes machine learning to detect fake news in an effort to make people more aware of important world events and to hold major news services accountable.

LavaLab

Director of Operations

Jan. 2019 - May 2020

Lead semester-long curriculum focusing on fundamental startup skills for top 5% of USC's designers, developers, and product managers

USC Makers

Product Manager

April 2019 - May 2020

Lead and manage engineering teams to build innovative IoT projects

Troy Labs

Founding Partner

May 2017 - May 2018

Troy Labs is the first USC Venture Fund to equip SoCal startups with the resources to be successful.

Scope

Developer

Aug. 2018 - May 2020

USC's premiere computer science organization where developers build projects to a rigorous curriculum

Awards

Tesla Security Certification

Aug. 2019

Received application security certifications in Go and iOS for both web and mobile security engineering

iOS Developer Certification

June 2019

Passed multiple courses through IBM and Lynda for iOS development

HackSC - Dash

April 2019

1st Place Grand Prize and Best Machine Learning Hack

IBM Robotics Certification

Aug. 2018

Passed 3 courses on Robotics and IoT solutions

IBM Blockchain Certification

Aug. 2018

Passed 3 courses on Blockchain and Hyperledger

HackCU - AgriWave

Feb. 2018

Best Unmanned System

LavaLab Showcase - Sozu

April 2018

2nd Place for Crowd Favorite Startup