Derek Lee

San Francisco Bay Area

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Education

University of California, Davis

Bachelor of Science in Computer Engineering — *Sep 2016 - Dec 2020*

- *Relevant Coursework*: Discrete Mathematics, Object-Oriented Programming, Data Structures, Algorithms, Computer Architecture, Computer Networks, Operating Systems, Embedded Systems, Machine Learning, Data Science & AI Systems Senior Design (TA Fall 2020)

Work Experience

Chevron Corporation — *Houston, TX (Remote)*

Infrastructure Systems/Cloud Intern - Mobility Design Team — *June 2020 - September 2020*

- Developed a device management and security solution for macOS devices for the enterprise using Microsoft Intune Mobile Device Management System and Microsoft Defender Advanced Threat Protection
- Delivered a Minimum Viable Product that will meet Chevron Cybersecurity standards and lead to the production support of corporate MacBooks for 100% of Chevron developers to use
- Achieved best scoring model out of 400 Chevron interns in Summer Intern Data Science Challenge to predict the Gross Sold quantity of hot dogs in Chevron fueling stations by leveraging Python to build Random Forest Regression, XGBoost, and Support Vector Regression models
- Practiced SAFe Agile and utilized Azure Boards with team to define user stories to track and update status of stories using the Kanban board

Albertsons Companies, Inc. — *Pleasanton, CA*

Software Engineer Intern - eCommerce Team — *June 2019 - Aug 2019*

- Developed a multi-email service solution to non-ADA compliant eCommerce email receipts to send HTML and CSS emails using Apache FreeMarker template engine, Java, and Spring
- Developed customer relationship manager full-stack application with CRUD operations using Java, Spring, Spring Boot, Hibernate, Maven, Ajax, HTML, CSS, and mySQL to demonstrate proficiency in tech stack to mentors and manager before working on ADA email project
- Manually tested UI of Jewel-Osco ecommerce website and checkout service API test cases using Postman to ensure complete functionality of website is maintained as website transitions from .NET to Java

SacHacks — *Sacramento, CA*

Executive Director — *Dec 2018 - Current*

- Lead efforts on ensuring SacHacks has 300 projected hackers participating in the second year and third year by managing all 5 departments of 30+ person team from 6 different colleges in Northern California and by developing health protocols for COVID-19
- Raise 80% of funds single handedly by executing deal to reconfirm Sacramento Kings as co-host for the second and third year of SacHacks with a $10,000 sponsorship deal as well as partnerships with other organizations
- Develop strategies for emerging content channels by leveraging A/B Testing and Mailchimp to grow social media by 20%

Skills

Languages: Python, Java, C++, C, JavaScript, HTML, CSS, Bash
Technologies: Spring, Spring Boot, Hibernate, Maven, Ajax, mySQL, jQuery, Bootstrap, Git, SCSS, JSON, Node.js, React, Express.js, Passport, Mongoose, RESTful Routing, Raspberry Pi, Arduino, Windows, Linux, macOS Big Sur, Microsoft Intune MDM, Microsoft Defender ATP

Projects

Glucose Monitoring for University of California, Davis Health's Dr. Nam Tran — *GitHub Link*

Python, pandas, Jupyter Notebook — *Jan 2020 - March 2020*

- Predicted the hourly glucose change for UC Davis Health patients after certain amount of insulin is given by performing linear regression
- Determined whether a patient has an infection based on their vital signs by using Support Vector Machines

SafeDrive — *Devpost Link*

Node.js, RESTful Routing, Twilio API, Google+ API, SmartCar API, OpenWeatherMap API, Raspberry Pi, Arduino — *Jan 2019 - March 2019*

- Created a full stack web application to send unique SMS messages if sensors detected close distance of license plates (tailgating), usage of high beams, or if the temperature outside was too hot for people, pets, or produce inside the car
- Implemented a sensor system to detect distance of license plates and to authenticate existence of high beams using Raspberry Pi and Arduino