Derek Lin

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EDUCATION

University of California, Davis — Davis, California
Bachelor of Science in Computer Science — *September 2018 – March 2022*

EXPERIENCE

Software Engineer Intern at ASUCD Pantry — September 2021 – December 2021
University of California, Davis — *Davis, California*
- Develop software solutions for ASUCD Pantry, a non-profit organization that aims to eliminate food insecurity, serving over 40,000 students at UC Davis.

Division I Cross Country and Track & Field Student-Athlete — September 2018 – December 2021
NCAA — *Davis, California*
- Dedicated 20+ weekly hours of training and conditioning, year-round, while competing in the fall and spring seasons for cross country and track & field.
- Averaged 60-90 miles ran per week. Personal bests of 32:29 in the 10k, 15:17 in the 5k, and 4:03 for 1500 meters.
- Strengthened leadership, time-management, organizational, teamwork, and communication skills with coaches, teammates, and advisors.

Software Engineer Intern at Jack Henry & Associates — June 2021 – August 2021
Remote — *Louisville, Kentucky*
- Implemented multi-threading for concurrent processing of financial transactions between individual financial institutions during scheduled End of Day (EOD) console, resulting in up to a 61% increase in processing speed.
- Migrated 100+ files from Team Foundation Services (TFS) to Git through Azure DevOps and Visual Studio.
- Added unit-test coverage for failed file validation, late payments, and delayed transactions for BillGo, the company stakeholder.
- Tested web services through SOAP API requests and XML configurations, minimizing time expenditure within payment operations.
- Wrote queries and modified stored procedures within SQL server to prevent duplicate transactions from company stakeholder, simultaneously strengthening consolidator relationships and maximizing revenue gain.

Software Engineer Intern at 7QUBES — March 2021 – June 2021
Remote — *Chicago, Illinois*
- Researched and integrated ShipEngine API and LibreSign API for product shipping and e-signatures to minimize business expenses.
- Published documentation for installing dependencies and launching the company client/platform GoPlutus.
- Implemented Travis CI, Jenkins, and Behavior Driven Development (BDD) processes.

PROJECTS

PizzaButton | *Python, AWS Lambda, Git, IoT*
- Implemented an AWS Lambda function that triggers via an IoT button click to order a pizza through the Dominoes API.

Superchat | *React.js, Git, Firebase*
- Created a web application where users can type messages to each other on the web. Prompts user authentication via Gmail and bans users for violating community guidelines.

RunnerApp - HackDavis 2021 | *React.js, Git, Flask*
- Developed an app that utilizes Google Maps API to generate popular running routes based on difficulty and location of the user from .gpx files in the area.

TECHNICAL SKILLS

Languages: C++,C,C#, SQL, Python, Java, JavaScript, HTML, CSS, R
Frameworks & Libraries: React.js, Node.js, Flask, Firebase
Developer Tools & Skills: Git, Docker, AWS Lambda, IoT, Visual Studio, CLion, Azure DevOps, Scrum/Agile
Relevant Coursework: Data Structures, Algorithm Implementation & Analysis, Object-Oriented Programming, Operating Systems, Computer Organization & Architecture