JONATHAN LU

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EDUCATION

San Jose State University, *Davidson College of Engineering*   San Jose, CA
Major: *Bachelor's* in Software Engineering   **(Expected May 2022)**
GPA: 3.55/4.0 **Honors:** Dean Scholar, Phi Kappa Phi Invitee, Tau Beta Pi Invitee
Related Coursework: Java, Python, Linux, Git, Data Structures & Algorithms, Operating Systems, Object-Oriented Design, Assembly, Computer Architecture, Networks, Database Management, Information Security, Software Design

PROFESSIONAL EXPERIENCE

The Opportunities Club, San Jose State University   San Jose, CA
Front-End Developer Extern   May – August 2020
- Regularly attended meetings with industry leaders to accommodate needs and discuss upcoming plans
- Worked alongside **a team of 30 undergraduates** to develop a farm supply chain for farm owners in India
- Drew product mockups through **Adobe XD** as a guide for group lead and design team
- Built a user interface design **using React.js/Node.js, HTML, and CSS** that detects account login

PERSONAL PROJECTS

Brick-Bricker   San Jose, CA
Student Developer   August – December 2020
- Developed a **JavaFX** game that mimics Atari's arcade game, Breakout
- Incorporated a file system to keep track of scores and to view multiple leaderboards at once
- Utilized **object-oriented design (inheritance)** to derive similar implementation for ball, brick, and paddle
- Learned how to use **Scene Builder** in a matter of days to provide a presentable graphical user interface

Slice   San Jose, CA
Group Lead, Programmer   August – December 2020
- Led a group of 4 to build a **Python Django** food delivery application where users can order take-out
- Allocated work among team members to ensure assignments follow **agile development**
- Achieved **full stack functionality** by creating SQLite schemas and connecting with front-end designs
- Wrote the entire backend models, allowing customers to validate their orders
- Used **JavaScript's localStorage property** to add and remove food items in shopping cart

Slay the Python   San Jose, CA
Group Lead, Programmer   January – May 2020
- Developed a **Python Flask** application for users to plan out important events and provide a work-life balance
- Defined **SDLC** project requirements by collaborating with 3 other undergraduates
- Used web development languages, such as **HTML and CSS** to create a customized menu page
- Designed a **SQLAlchemy database** to store account credentials and appointment dates
- Successfully deployed a fully functional web application through **Heroku**

WORK EXPERIENCE

Mathnasium of Milpitas, The Math Learning Center   Milpitas, CA
Lead Math Instructor   July 2019 – Present
- Teach **1-4 students** using Mathnasium's curriculum, ranging from Elementary Math through Pre-Algebra, Integrated Math, Algebra I and II, Statistics, and Pre-Calculus
- Maintain a clean and neat workspace to welcome students entering the center
- Assist other lead instructors in evaluating and documenting students' progress after every session
- Discuss with parents regard to child's lesson plan, assessment, and workout book

SKILLS

Literacy: Cantonese (native), English (fluent), Mandarin (fluent), Vietnamese (basic), Spanish (basic)
Programming Languages: Java, Python, C, C++, HTML, CSS, Flask, React.js, Node.js, SQL
Development Tools: Sublime Text, Visual Studio Code, Visual Studio, Eclipse, PyCharm, Microsoft Office
Interests: Full-Stack Development, Data Science, Machine Learning/AI, Cybersecurity, Music, Photography, NBA, NFL