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DONNIE LEE

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EDUCATION

UNIVERSITY OF PENNSYLVANIA – Philadelphia, PA **Aug 2021 – May 2023**

Master of Computer and Information Technology

- Expected Coursework by May 2022: Algorithms, Data Structures, Software Design, Discrete Math, Computer Systems Programming, Operating Systems

UNIVERSITY OF CALIFORNIA, LOS ANGELES (UCLA) – Los Angeles, CA **Sep 2016 – Jun 2020**

Bachelor of Science, Chemical Engineering

- GPA: 3.74
- Relevant Coursework: Intro to Computer Science, MATLAB, Linear Algebra, Process Computer-Aided Design
- Club Activities: Renewable Energy Association – External Vice President (2017-2020)
- Scholarships: Rhone-Poulence Contribution to Excellence (2018 & 2020), Youngsoo Cha Endowed (2019)

SOFTWARE & SKILLS

- **Coding Languages:** C++, Python, MATLAB, HTML, CSS, JavaScript
- **Coding Tools/Frameworks:** Express.js, Node.js, VS Code, PyCharm, Jupyter Notebook, Git
- **Project Management:** Scrum Alliance - Certified Scrum Master (2020), Smartsheet, Tableau

WORK EXPERIENCE

KITE PHARMA – Santa Monica, CA **Jun 2020 – Jul 2021**

Technical Analyst, Technical Operations Rotation Program

- Managed 4 raw material sourcing and 5 business process improvement projects to yield savings of $3.4 M/year.
- Led cross functional teams totalling 15+ members from 6 departments using Waterfall or Agile Scrum project management methodology.
- Created cost savings tracking tool to measure and identify opportunities for cost reduction of over $1 M/year.
- Delivered change controls in conformance with global regulations to onboard new suppliers for at-risk materials.

ROCHE – Santa Clara, CA **Jun 2019 – Sep 2019**

Sequencing Operations Intern

- Scraped 1GB per hour of manufacturing data from network drives using Python to compile the latest master data sheets for Sequencing Operations team.
- Established live visualization dashboard for manufacturing, supply chain, QA and QC groups using Tableau.
- The dashboard improved quality oversight and introduced more transparency in line with company KPIs.

SKYWORKS SOLUTIONS – Newbury Park, CA **Jun 2018 – Sep 2018**

Process Engineering Intern

- Revamped statistical process control (SPC) charts to streamline manufacturing data analysis by automating both the retrieval of data using Python and SQL, and visualization of data using JMP scripts.
- Implemented intranet dashboard interface to display SPC charts using HTML and Bootstrap CSS framework.
- Created Python GUI with Tkinter for process engineers to seamlessly create new visualizations of their data.

PROJECTS

STUDYBOOK **Aug 2021**

Technologies: JavaScript, Node.js, Express.js, MongoDB, Google OAuth, Handlebars

- Created the server-side of CRUD application for users to save study notes which can be shared to other users.
- Developed login and dashboard using handlebar templates with user authentication and sessions middleware.
- User sessions and activities saved in NoSQL database so users can return to their StudyBook workspace.

MAZE SOLVER GAME **Aug 2021**

Technologies: Python, Pygame

- Designed an A-star path finding search algorithm which maps the shortest distance to solve any user-defined maze.
- Unit tested algorithm functions to check whether search algorithm returns the shortest path.

MESSENGER WEB APP **Jul 2021**

Technologies: JavaScript, Node.js, Express.js, WebSocket (Socket.io)

- Built the backend JavaScript for a real-time group chat web app.