Sang Do

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EDUCATION

UCSD, Jacobs School of Engineering	San Diego, CA
Computer Science	*Sep. 2023 – Present*
Ohlone College	Fremont, CA
Associate's in Computer Science, GPA: 3.8	*Aug. 2021 – May 2023*
Ohlone College	Fremont, CA
Associate's in Biology, GPA: 3.8	*Aug. 2013 – May 2016*
Google IT Support Certificate	April 2021

EXPERIENCE

GMP Laboratory Associate — Aug. 2021 – Oct. 2022
Synthego Corporation — *Redwood City, CA*

- Wrote Python scripts and used Google Sheets to analyze and visualize manufacturing process data, saving the team 90% of the time previously spent on manual data entry
- Operated complex robotic systems (AKTA, Hamilton, Agilent) to manage liquid product. Interacted with softwares to modify methods and troubleshoot
- Used Confluence and created a Kanban board using Jira to visualize workflow, track work progress, schedule, and assign tasks
- Collaborated with Supply Chain, Quality Assurance, Warehouse, and other cross-functional teams for maintenance and continuous improvement of processes
- Applied hands-on laboratory skills and trained team members in techniques such as fraction analysis, SPE, and HPLC to synthesize and purify GMP-grade oligonucleotides

Healthcare Specialist/Platoon Line Medic — Feb. 2017 – Aug. 2020
United States Army — *Fort Bragg, NC*

- Served as a line medic to an Infantry platoon, managing medical readiness and health of 25 soldiers on daily basis and during training events
- Provided emergency medical treatment, limited primary care, and evacuation in a variety of operational settings between November 2017 to February 2018 during Operation Freedom's Sentinel in Afghanistan
- Assisted with outpatient care and treatment in clinical medical facilities under the supervision of a physician assistant
- Assisted with accountability and serviceability of Class VIII medical supplies and equipment valued in over $100,000

PROJECTS

2Dsim | *Javascript, p5js, Git, GitHub Pages* — June 2020 – Present

- *https : //sangpotado.github.io/2dsim/draw%20function/ — .../2dsim/evolution/*
- Used the p5.js library, object-oriented programming (OOP) principles, and applied linear algebra's concepts to create a quadrant graph application
- Explored beginner artificial intelligence (AI) concepts such as genetic algorithms, layers, gradient descent, back-propagation, and more by building a neural network from scratch

UCSD TritonUAS Backend Developer | *Go, Docker, InfluxDB* — Sept. 2023 - Present

- Collaborate with project leads to develop and maintain the web app's infrastructure, server, and data storage, facilitating seamless data management and real-time interactions for the autonomous flying drone application
- Develop a function to retrieve all data from the InfluxDatabase and store it on a local computer
- Contribute to the comprehensive wiki and documentation that explains the architecture of the app

TECHNICAL SKILLS

Languages: Java, Python, C++, JavaScript
Developer IDE: Linux, Git, VS Code, Visual Studio, PyCharm, Eclipse
Libraries: pandas, NumPy, Matplotlib, PyTorch, p5js