Nyx Iskandar

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EDUCATION

University of California, Berkeley   **Expected Graduation May 2026**

B.S. Electrical Engineering and Computer Sciences   GPA: 4.00 (Dean's List)
- Featured on "Voices of Berkeley Engineering" in my first semester at UC Berkeley for my entrepreneurial mindset and pursuits
- Organizations: Machine Learning at Berkeley, ASUC Office of the CTO, Singapore Student Association
- Coursework: Data Structures & Algorithms, Controls & Circuits, Optimization Models, Emerging Technology Policies

PUBLICATIONS

Manga Layout Analysis via Deep Learning – https://doi.org/10.1007/978-981-19-7222-5_6
- A deep learning computer vision pipeline (instance segmentation & OCR) to automate the semantic and structural analysis of manga
- Aims to alleviate the extremely heavy workload faced by Japanese animators when adapting manga into anime

EXPERIENCE

Product Owner & Lead Software Engineer – Haas Business School Association   **Mar 2024 – Now**
- Manage a 4-person team of software engineers, designers, and quality engineers
- Build a platform to increase accessibility of information regarding classes and degree pathways for over 2000 Berkeley business students

ML Engineer & External Relations Officer – Machine Learning at Berkeley   **Sep 2023 – Now**
- Improve accuracy and consistency of robotic pick-and-place operations requiring millimeter-level rotational and translational precision
- Organize career fairs, company visits, infosessions, and other events with companies in the AI/ML/robotics/SWE space

Product Owner & Lead Software Engineer – ASUC OCTO   **Jan 2024 – May 2024**
- Improved efficiency and accuracy of vote-analysis for student government elections involving over 30,000 students
- Deployed completed product 2 months ahead of schedule with better accuracy and user experience than pre-existing tools

Full Stack Software Engineering Intern – Government Technology Agency (GovTech) Singapore   **Apr 2023 – Jul 2023**
- Enabled better user experience in >1100 government-owned websites through building a dashboard to analyze broken links
- Invited to speak to over 200 interns and managers about my contributions and overall internship experience

Research Intern (Robotic Intelligence) – A*STAR Singapore   **Nov 2021 – Jan 2022**
- Led a CNN-based computer vision project for identifying industrial parts from color images (solution integrated into final research)
- Conducted experiments for an intelligent robotic grasping project involving novel objects

LEADERSHIP AND PROJECTS

Singapore Student Association – Vice President & Tech Director   **Mar 2024 – Present**
- Lead and foster a welcoming and uplifting community of Singaporeans in UC Berkeley
- Design, develop, and manage the club's website and other tech solutions to support club operations

NexLiber – Founder & Lead Developer   **May 2022 – May 2024**
- Built a full-stack web app to promote greater accessibility in coding education and wider collaboration amongst developers
- Partnered with coding bootcamps and tech startups from >4 countries to support their hackathons and internship programs

Code for Hope – Founder & Lead Mentor   **Apr 2021 – Apr 2022**
- Taught 200 underprivileged students Python fundamentals to close the income gap
- Partnered with 14 organizations and recruited 25 teacher volunteers to support 10 iterations of this immersive 2-week bootcamp

ACHIEVEMENTS

Smart Nation Scholarship – full-ride scholarship for talent and passion in computer science, technology, leadership, and public service
Palantir Launch 2024 – highly selective (<1% acceptance rate) insight program for high-potential students in computer science
UN General Assembly Youth Panelist – advocated for gender equality in STEAM via a panel in the UNGA 77 Science Summit
Best Poster Presentation & Gold/Silver Medals – awarded multiple accolades in national and international research conferences for published research project, Manga Layout Analysis via Deep Learning

SKILLS AND TECHNOLOGIES

TensorFlow, Keras, PyTorch, OpenCV, ROS, NumPy, pandas, LangChain, React, Next.js, Svelte, Astro.js, Solid.js, Tailwind CSS, Axios, Flask, Django, PostgreSQL, AWS, Docker, Supabase, TinaCMS, Storyblok, Python, TS, JS, Java, C++, OCaml, SQL, HTML, CSS, Git