Nicholas Ung

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EDUCATION

Northeastern University   **Expected Dec 2025**
- *Candidate for Master of Science in Computer Science*
- Relevant Coursework: Algorithms and Data Structures, Object Oriented Programming, Discrete Mathematics

University of California, Los Angeles (UCLA)
- *Bachelor of Science in Molecular, Cell and Developmental Biology – Specializing in Computing*
- Publications: Desai, Heta et al. "Multi-omic stratification of the missense variant cysteinome." *bioRxiv : the preprint server for biology* 2023.08.12.553095. 14 Aug. 2023, https://doi.org/10.1101/2023.08.12.553095.

RELEVANT EXPERIENCE

Open-Source Developer | *PolicyEngine – San Jose, CA*   **Mar 2023 – Present**
- Enhanced user engagement by 15% by building a product dashboard using responsive web design patterns.
- Overhauled the web app frontend using **React**, **CSS**, and **Javascript** in collaboration with the UI/UX team.
- Delivered a novel **API** endpoint in a **Flask** backend, impacting the policy reforms of over 4300 users.

Software Engineer Intern | *Amazon – Los Angeles, CA*   **Sep 2023 – Jan 2024**
- Developed **React**-based features for OpenSearch Dashboards, a distributed system serving over 10,000 customers.
- Resolved 12+ production bugs in **Typescript** services and increased the coverage of **Jest** unit testing by 11%.
- Achieved a Lighthouse rating of 100 by integrating UI components and leveraging **CI/CD** pipelines for rapid iteration.

Undergraduate Researcher | *Backus Biochemistry Lab at UCLA – Los Angeles, CA*   **Dec 2019 – Jun 2021**
- Automated lab data-processing pipelines, reducing workloads by 50% through efficient **Python scripting**.
- Led development of the research group logo and implemented it on official lab apparel and the team website.
- Engineered scripts to transform raw proteogenomic data into 48 charts characterizing predicted protein sequences.

PROJECTS

2023 – **Infinite Lifestyle Solutions** *(Nonprofit Organization for Youths Affected by Violence)* – infinitelifestylesolutions.org
- Rebuilt a 6-year-old website with full user experience redesign and released a **minimum viable product** in 2 months.
- Worked in a cross-functional **Scrum/Agile** team that engaged in stand-ups, sprints, task estimation and retrospectives.
- Communicated key product features to stakeholders by delivering a comprehensive, structured oral presentation.
- Drove a 20% increase in search rankings and site traffic by implementing **search engine optimization (SEO)** strategies.
- Technologies Used: Javascript, HTML, CSS

2022 – **Chow Counter** *(Restaurant and Recipe Discovery Tool)* – github.com/nung22/chow-counter
- Built a **Single Page Application (SPA)** using a **React** frontend, **Node/Express** backend, and **AWS EC2** for deployment.
- Implemented **REST API** integration with the Yelp and Spoonacular interfaces for dynamic content delivery.
- Streamlined project timeline by 10% by using **Kanban** to prioritize requirements and organize workflow.
- Technologies Used: Javascript, React.js, Express.js, Tailwind, Node.js, REST API, AWS EC2

SKILLS

- **Languages:** Javascript, Python, Java, HTML5, CSS3, SASS, SQL, Bash, C++, Typescript
- **Frameworks/Libraries:** React, Flask, Node, Express, Spring, Jest, Material UI, Tailwind
- **Tools:** AWS EC2, Git, MySQL, NoSQL, Mongoose, Trello, Jira, NPM, Yarn, CI/CD

ACTIVITIES & INTERESTS

Marathons, Triathlons, Hiking, Dragon Boat, Volunteering, Eagle Scout, Contributing to Open-Source