Nicholas Ung

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RELEVANT EXPERIENCE

Open-Source Software Engineer | *PolicyEngine – Washington, DC* **Mar. 2023 – Present**
- Increased user engagement by 15% by integrating responsive web design into the tax-benefit calculator dashboard.
- Collaborated with the UI/UX design team to overhaul the PolicyEngine site frontend using **React**, **CSS**, and **Javascript**.
- Measured impact of policy reforms for over X thousand users by serving a novel **API** endpoint with a **Flask** backend.

Open-Source Software Engineer | *Amazon – Los Angeles, CA* **Sep. 2023 – Dec. 2023**
- Built features in **React** for the OpenSearch Dashboards Search Relevance plugin, reaching XX thousand customers.
- Resolved production bugs in existing **Typescript** services, utilizing **CI/CD** pipelines to rapidly iterate.
- Achieved a Lighthouse rating of 100 by integrating UI components into the platform with unit testing using **Jest**.

Undergraduate Researcher | *Backus Biochemistry Lab at UCLA – Los Angeles, CA* **Dec. 2019 – Jun. 2021**
- Engineered scripts to transform raw proteogenomic data into 48 charts characterizing predicted protein sequences.
- Spearheaded creation of lab logo in **Canva** that was used on official lab apparel and the team website.
- Reduced researcher workloads by 50% by automating lab data-processing pipelines with efficient **Python** scripting.

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 within a **Scrum/Agile** team with daily stand-ups, sprints, task estimation and retrospectives.
- Drove a 20% increase in search rankings and organic traffic by implementing **search engine optimization** strategies.
- Technologies Leveraged: Javascript, HTML, CSS

2022 – **FleaFlickr** *(Issue Tracking and Project Management Web App) –* github.com/nung22/fleaflickr
- Created a full-stack application using **object-oriented programming** and incorporated CRUD actions for projects/issues.
- Improved the modularity, scalability, and maintainability of the code base by utilizing the **Spring MVC** pattern.
- Streamlined project timeline by 10% by using **Kanban** to prioritize requirements and organize workflow.
- Technologies Leveraged: Java/J2EE, Spring Boot, Javascript, MySQL, Bootstrap, HTML, CSS, AWS EC2

2022 – **Chow Counter** *(Restaurant and Recipe Discovery Tool) –* github.com/nung22/chow-counter
- Built an adaptable interface powered by **large-scale APIs** (Yelp/Spoonacular) for users to find restaurants and recipes.
- Successfully deployed to **AWS EC2** instance by using SSH, securely transferring files, and configuring the environment.
- Created a Single Page Application frontend using **React** with a **Node/Express** backend and a **MVVM** architecture.
- Technologies Leveraged: Javascript, React.js, Express.js, Tailwind, Node.js, REST API, AWS EC2

SKILLS

- **Languages:** Javascript, Python, Java, HTML5, CSS3, SASS, SQL, C++, Bash, 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

EDUCATION

Coding Dojo **Feb. 2023**

University of California, Los Angeles (UCLA) **Jun. 2021**
- *Bachelor of Science in Biology with Computing Specialization, 3.7 GPA*
- Relevant Coursework: *Advanced Programming, Intro to Python, Biomodelling Basics, Digital Imaging and Processing*

ACTIVITIES & INTERESTS

Marathons, Triathlons, Los Angeles Sports Teams, Dragon Boat, Volunteering, Eagle Scout, Contributing to Open-Source