

# NICHOLAS UNG

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## EXPERIENCE

### Software Engineer

Mar 2023 – Present

*PolicyEngine*

*Remote*

- Increased user engagement by 15% by integrating responsive web design principles into the tax-benefit calculator dashboard.
- Collaborated on a project to update the user interface of the web app that followed a sprint process, maintained a customer-centric vision, and worked directly with the UI/UX design team to focus on solving the biggest problems and keeping changes consistent.
- Measured impact of policy reforms for over 3000 users by deploying a microsimulation model, API endpoint, and React-based UI.

### Software Engineer

May 2023 – Jul 2023

*re:Bloom – Infinite Lifestyle Solutions* ([www.infinitelifestylesolutions.org](https://www.infinitelifestylesolutions.org))

*Remote*

- Built a functional, visually appealing, and modern website by collaborating with the client to understand their needs and goals.
- Executed software development process in an Agile/Scrum environment with daily stand-ups, sprint planning, and retrospectives.
- Drove a 20% surge in search rankings and a 25% upswing in organic traffic through adept implementation of SEO strategies.
- Conveyed project's decision-making process and positive outcomes to non-technical stakeholders in an engaging oral presentation.
- Achieved a 90% satisfaction rate among website visitors by resolving all usability issues identified through user testing.

### Undergraduate Researcher

Dec 2019 – Jun 2021

*Backus Biochemistry Research Lab at UCLA*

*Los Angeles, CA*

- Engineered scripts to transform raw proteogenomic data into 48 readable charts that characterized predicted protein sequences.
- Reduced researcher workloads by 50% by automating the lab data-processing pipelines with Python scripting to improve efficiency.
- Spearheaded creation of a lab logo in Canva that was selected by the principal investigator for use on apparel and the team website.

### Learning Center Consultant

Jun 2018 – Jun 2020

*UCLA Residential Life*

*Los Angeles, CA*

- Resolved over 500 technical issues related to cloud-based printers across 25 units, leading to a 40% boost in student approval rating.
- Recruited 10 companies for a school-wide tech showcase and organized a creative, innovative social media campaign that resulted in a 30% increase in event attendance.

## PROJECTS

**FleaFlickr** | Tech Stack: Java/J2EE, Spring Boot, Javascript, MySQL, Bootstrap, HTML, CSS, AWS EC2

[GitHub](#)

*Issue Tracking and Project Management Web App*

- Created a robust end-to-end application using object-oriented programming and incorporating CRUD actions for projects/tickets.
- Improved the modularity, scalability, and maintainability of the code base by implementing the Spring MVC architectural pattern.
- Streamlined project timeline by 10% through application of Kanban to oversee progress and foster behavior-driven development.

**Chow Counter** | Tech Stack: Javascript, ReactJS, Express, Tailwind, NodeJS, REST, AWS EC2

[GitHub](#)

*Calorie-Tracking App with tools to Discover Restaurants and Recipes*

- Developed an adaptable interface powered by large-scale APIs (Yelp/Spoonacular) for users to discover new restaurants and recipes.
- Successfully deployed application to AWS EC2 instance by using SSH, securely transferring files, and configuring the environment.
- Attained a Google PageSpeed Insights performance rating of 98 by optimizing user experience with a scalable, flexible web layout.

## SKILLS

**Languages:** Javascript, Python, Java, HTML, CSS, SQL | **Frameworks/Libraries:** React.js, Flask, Node.js, Express, Spring

**Databases:** MySQL, MongoDB | **Tools:** AWS EC2, JSON, Git, Tailwind, Bootstrap, MySQL Workbench, Mongoose, Trello, Jira

## EDUCATION

### Coding Dojo

Oct 2022 - Feb 2023

- Five-month long boot camp covering Full-stack Software Engineering in Python, Java and MERN

### University of California, Los Angeles (UCLA)

Jun 2021

- Major: *Bachelor of Science in Molecular, Cell and Developmental Biology* (GPA: 3.67) / Specialization (Minor): *Computing*
- Programming Coursework: *Advanced Programming in C++, Intro to Python, Biomodelling Basics, Digital Imaging & Processing*
- Publications: *Multi-omic stratification of the missense variant cysteinome, 2023.* / Honors: *Dean's Honor List*

## HOBBIES & INTERESTS

Marathons, Triathlons, Los Angeles Sports Teams, Dragon Boat, Volunteering