

# Gabriela Shirley

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## EDUCATION

### Cornell Tech (Cornell University)

*Master of Engineering in Computer Science | Merit Scholarship*

New York, NY

Aug 2024 – May 2025

### University of California, San Diego

*Bachelor of Science in Computer Science | GPA: 3.91*

San Diego, CA

Sep 2019 – Jun 2021

Coursework: HCI and Design, Data Science, Trust and Safety, Data Structure and Algorithms, Applied Machine Learning, Operating Systems, Business Fundamentals, Product Management, Digital Marketing, Entrepreneurship, Venture Capital

## EXPERIENCE

### Software Engineer III | Boku, San Francisco, CA

Aug 2021 – Jul 2024

- Integrated one-time and tokenized payment APIs for charge, refund, and subscription processing between major tech merchants and 200+ global payment methods, increasing digital purchases by 201%
- Led a merchant dashboard end-to-end development collaborating with Agile cross-functional teams, authored comprehensive technical documentation for maintainability, mentored a new team of 5 and oversaw handover
- Designed UI/UX in Figma and developed full-stack dashboard pages using Angular, Java (Spring Framework), MySQL, and Redshift, implementing secure authentication with 2FA, OAuth SSO, CAPTCHA and optimizing server-side operations to render big data efficiently within resource constraints

### Software Engineer Intern | Analytical Flavor Systems, New York, NY

Aug 2020 – Oct 2020

- Incorporated a project tracking system into Gastrograph AI web and mobile apps for instant task notifications, reducing project duration by 20 work hours using React, Redux, React Native, GraphQL, and PostgreSQL
- Streamlined quality assurance (QA) report generation and revision interface, automating 5 manual workflows and centralizing documents for more efficient software development life cycle (SDLC) management
- Redesigned flavor review interface to specify texture per food component and increase flavor profile data granularity, allowing for greater prediction accuracy

### Web Developer | UCSD Information Theory and Application Center, San Diego, CA

Dec 2019 – Feb 2020

- Remodeled homepage and registration system for ITA Workshop 2020 using React and Django REST Framework
- Created a new database model to store 5000+ additional registrations, enhancing data storage and lookup time

### Application Developer Intern | IBM Indonesia, Jakarta, Indonesia

Aug 2019 – Sep 2019

- Implemented an applicant tracking system from Figma design mockup using Angular with Node.js and Express back-end API integration, digitalizing 1000+ annual applicants

### Full Stack JavaScript Developer Intern | Bizzy Indonesia, Tangerang, Indonesia

Jun 2019 – Aug 2019

- Refined daily commercial report portal using React, boosting web functionality and performance by 78%
- Visualized data using D3.js and optimized PostgreSQL queries, improving data quality for sales and stock reports
- Pitched and built a loyalty program gamification for TokoSmart mobile app using React Native (TypeScript)

## PROJECTS

### Automated Gene Target Report Card for Inflammatory Bowel Disease

Spring 2020

- Designed and developed an end-to-end web application summarizing gene therapeutic potentials to streamline the IBD drug development research process efficiently using React, Node.js, Express, MongoDB, and Figma

### Sports Networking App

Spring 2020

- Developed UI/UX and full-stack integration for connecting people to find any sports teammates, book venues, and match with coaches using React, Django REST Framework, Firebase Authentication, Firebase Hosting

## LEADERSHIP

### President, Women in Computer Science Club, Diablo Valley College, Pleasant Hill, CA

Aug 2017 – May 2019

- Led 58 WiCS members to win 4 awards at hackathons, resulting in an 80% expansion of club membership
- Organized a 24-hour pioneer hackathon, DVCHacks, DVC's Best Event of the Year 2018-2019 with 88 participants

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, Java, HTML/CSS, C++, SQL (Postgres, MySQL), GraphQL

**Frameworks:** Angular, Spring, React, Node.js, Express, Django REST, JUnit, React Native

**Developer Tools:** Git, Figma, Jenkins, GitHub Actions, AWS, VS Code, IntelliJ, Docker, MongoDB, Firebase, Unix

**Libraries:** Angular Material, Material UI, NumPy, Matplotlib, pandas, scikit-learn, TensorFlow, PyTorch