

# Shanta Joshi

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## EDUCATION

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### University of California, Berkeley

Berkeley, CA

*B.S. in Bioengineering | Minor in Electrical Engineering and Computer Science*

Aug 2022 - May 2026

Relevant Coursework: Introduction to Artificial Intelligence, The Structure and Interpretation of Computer Programs, Data Structures, Designing Information Devices and Systems, Engineering Molecules, Organic Chemistry, Cell Engineering, Biomedical Physiology for Engineers, Instrumentation in Biology and Medicine, Biological Transport Phenomena, Engineering Devices I, BioMEMS and Medical Devices

## WORK EXPERIENCE

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### Clearwater Analytics

Boise, ID

*Software Development Intern*

June 2025 - August 2025

- Developed automated testing framework using Playwright (Java) for financial reporting system, reducing manual testing time from hours to minutes
- Implemented dual-path testing solution with UI automation and API validation, improving test coverage and reliability for critical business reports
- Built multi-module Maven project with configurable test scenarios, enabling scalable automation for reports of varying complexity

### Amgen Biotech Experience

Berkeley, CA

*Lab Assistant*

January 2024 - Present

- Responsible for aliquoting, centrifuging, and operating laboratory equipment such as PCR machines, microcentrifuges, autoclaves, and utilizing gel electrophoresis to analyze DNA samples
- Managing and handling chemicals, ensuring their proper storage and contributing to a safe and organized lab environment

### University of California, Berkeley Extension

Berkeley, CA

*Reader*

August 2023 - December 2023

- Graded homeworks and quizzes and exams for Introduction to Differential and Integral Calculus
- Attended office hours and tutored students needing help

### Quantum Generative Materials

Remote

*Software & Research Intern*

August 2023 - September 2023

- Wrote a program in Python to parse DICOM files and feed the data into an AI/ML pipeline
- Summarized research papers to support research objectives for determining the optimal composition of materials

## SELECTED PROJECTS

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### Income Forecast Testing E2E Framework

- Designed and developed a comprehensive test automation solution for a financial reporting system
- Created multi-module framework supporting both UI-driven and API-based testing approaches
- Implemented automated report generation, validation, and comparison against reference datasets, significantly reducing manual QA overhead while improving accuracy and consistency

### Build Your Own World

- Developed a Java-based game implementing a world generation system where all game elements, were created pseudo-randomly, to ensure a unique player experience with each new game instance
- Successfully incorporated features such as smooth avatar movement controls, game-saving and loading functionality to preserve player progress, and a dynamic Heads-Up Display (HUD) that provided real-time updates on player stats and game information, thereby enhancing overall gameplay experience

### LilyPad Arcade Game

- Designed and built a physical arcade-style game that features a frog that users can maneuver and aim to drop onto moving lily pads
- Built a project website to explain the different aspects of the project: <https://lilypadplunge.netlify.app/home>

## SKILLS & AFFILIATIONS

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**Skills:** Java, Python, JavaScript, Scheme, SQL, Playwright, API testing, Maven

**Affiliations:**

- **Theta Tau Professional Engineering Fraternity** - Academic Chair
- **Sigma Kappa Sorority** - Director of Social Events
- **Biomedical Engineering Society** - Member