

# Michael Levin

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## EDUCATION

### University of California - Los Angeles

Los Angeles, CA

*Bachelor of Science in Computer Science and Mathematics, GPA: 3.74*

*Sep 2023 – Jun 2026*

- Dean's Honors List, US History Bee competitor, Boys State alumni
- Relevant coursework: Data Structures & Algorithms, OOP, Computer Architecture, Probability & Statistics

## EXPERIENCE

### Software Engineering Intern

Jul 2024 – Sep 2024

*Charge Health*

*Austin, TX*

- Engineered and redesigned the UI in Flutter, enhancing the user experience for **10,000+** users
- Optimized performance and scalability by integrating AWS Lambda with DynamoDB using Boto3 and PynamoDB
- Reduced bugs by **30%** through comprehensive unit tests in Python and Dart, using Gradle, Mockito, and Moto
- Debugged and optimized functionalities, improving responsiveness and reducing user-reported issues by **25%**

### Technical Recruitment Coordinator

Jul 2022 – Nov 2022

*Lanhee Chen Campaign for Controller*

*Los Angeles, CA*

- Recruited **30+** interns and managed a volunteer phone banking team that made **100,000+** calls
- Web scraped public school data using BeautifulSoup in Python to gather emails from over **2000** high schools
- Identified key individuals using Pandas and NumPy, and developed an OOP Python script that contacted **4000+** volunteers and school officials, boosting volunteer recruitment by **20%**
- Implemented the internship program at **7** schools by setting up and leading meetings with key school officials

### Researcher and Event Manager

May 2022 – Oct 2022

*Pioneer Academics*

*Los Angeles, CA*

- Organized and facilitated collaborative meetings connecting **100+** students through interdisciplinary projects
- Co-authored an academic research paper with a Vanderbilt professor and presented findings to key officials
- Planned events to connect hundreds of scholars and led groups of ten scholars through the research process

## PROJECTS

### Banking Application | *Java, Spring Boot, React, SQL, Bootstrap, Postman, XML*

Sep 2024 – Present

- Developed a full-stack banking application using Java Spring Boot and React, supporting **5+** core banking operations and integrating RESTful APIs for efficient communication between frontend and backend
- Enhanced security with Spring Security and JWT, achieved **100%** compliance with industry standards, and implemented an automated email notification system for transaction alerts and updates

### Clinic Finder Application | *Dart, Flutter, AWS, GraphQL, Python, Requests*

Jun 2024 – Aug 2024

- Built a Flutter mobile app for locating specialized clinics, using AWS Amplify for backend integration and GraphQL for API management. The app features real-time search capabilities, enhancing clinic retrieval efficiency
- Established secure user authentication with AWS Cognito and encrypted storage on Amazon S3

### TunnelMan Game | *C++*

Jul 2024 – Aug 2024

- Engineered a 2D action game in C++ with complex mechanics, including player movement, inventory management, and enemy AI, enhancing code efficiency, and refining collision detection algorithms for improved gameplay
- Enhanced memory usage by **15%** and boosted frame rates by **25%** through efficient data structure design
- Employed robust data encapsulation practices and utilized STL containers like queues, vectors, and maps

### Boston Housing Price Prediction | *Python, Flask, Vue, Scikit-learn, XGBoost*

Sep 2023 – Nov 2023

- Designed a robust Linear Regression model for predicting Boston housing prices, achieving **73%** accuracy on **500+** data points through extensive EDA, data cleaning, and hyperparameter tuning with Grid Search
- Deployed the model using Flask and Vue for real-time predictions, enabling integration with web applications

## TECHNICAL SKILLS

**Languages:** Python, C/C++, JavaScript, Java, SQL, Dart, Bash, HTML/CSS, XML, R

**Frameworks:** React, Spring Boot, Hibernate, Flask, Flutter, Vue, Bootstrap

**Developer Tools:** AWS, Git, Linux, Gradle, Mockito, VS Code, IntelliJ, Android Studio, Postman, Jira, Agile

**Libraries:** Boto3, PynamoDB, Pandas, NumPy, Matplotlib, Requests