Michael Levin

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EDUCATION

University of California - Los Angeles   Los Angeles, CA
Bachelor of Science in Computer Science and Mathematics, GPA: 3.72   *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 Beautiful Soup 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, 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
- Developed 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
Developer Tools: AWS, Git, Linux, Gradle, Mockito, VS Code, IntelliJ, Android Studio, Postman, Jira, Agile
Libraries: Boto3, PynamoDB, Pandas, NumPy, Matplotlib, Requests