Michael Levin

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EDUCATION

University of California - Los Angeles — Los Angeles, CA
Bachelor of Science in Computer Science, GPA 3.6 — *Sep 2023 – Dec 2026*
- US History Bee competitor, Boys State alumni, Dean's Honors List
- Relevant coursework: Machine learning, Data Structures & Algorithms, Operating Systems, Computer Architecture

EXPERIENCE

Software Engineering Intern — Jun 2025 - Present
GitHub — *Los Angeles, CA*
- Engineered a distributed notification system with Go, Kafka, and Azure, reaching millions and driving **$3M ARR**
- Redesigned core UI components in React, TypeScript, and Ruby, enabling onboarding for **3** enterprise clients
- Delivered internship project **50% ahead of schedule**, freeing additional time to resolve **4** high-priority P1 issues
- Developed a Rails REST API with Protobuf contracts for Cost Centers, reducing billing support tickets by **5%**

Software Engineering Intern — Oct 2024 - Dec 2024
Helios Technologies — *Gig Harbor, WA*
- Developed a personalized clone interface using Large Language Models (LLMs), supporting over **1,000** active users
- Designed the UI with React, TypeScript, and Jest, employing Test-Driven Development to raise coverage by **20%**
- Integrated Node.js server components with AWS, optimizing the model to boost accuracy and cut costs by **5%**

Software Engineering Intern — Jul 2024 – Sep 2024
Charge Health — *Austin, TX*
- Enhanced the user experience for over **10,000** users by engineering and redesigning the UI in Flutter
- 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

PROJECTS

Banking Application | *Java, Spring Boot, React, SQL, Bootstrap, Postman, XML* — Sep 2024 – Dec 2024
- 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
- 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: C++, Python, Go, TypeScript/JavaScript, Ruby, C, SQL, Java, Dart, Bash, HTML/CSS
Frameworks: React, Ruby on Rails, Spring Boot, Hibernate, Flask, Node.js, Tailwind, Flutter, Vue, Bootstrap, Vite
Developer Tools: Azure, AWS, Kafka, Cosmos DB, DynamoDB, Protobuf, Git, Linux, Docker, CI/CD, Agile
Concepts: Distributed Systems & Microservices Architecture, Cloud Infrastructure (AWS, Azure, GCP), Event-Driven Systems (Kafka, Pub/Sub), Stream & Batch Data Processing (Spark, Flink), Scalable API Design (REST, gRPC, GraphQL), Search Infrastructure (ElasticSearch, Lucene), Data Pipelines & Indexing, Systems Reliability & Observability, Concurrency & Performance Optimization, CI/CD Automation, Security & Fault-Tolerance