

Matthew Keshishian

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EDUCATION

University of California, Los Angeles (UCLA)

Bachelor of Science in Computer Engineering

3.79/4.0 GPA

Sep 2022 - Jun 2026

Courses: Data Structures and Algorithms, Machine Learning, Software Construction, Linear Algebra, Statistics

EXPERIENCE

CertiPro Solutions

Software Analyst

Los Angeles, CA

Sep 2023 - Present

- Delivered **10+** projects from technical planning stage to full production deployment by defining system requirements, designing APIs (in Python, JavaScript, PHP), and composing technical documentation
- Designing and implementing effective software solutions for Sage, Magento, and Shopify that integrate with a JS middleware; signed **80%** of clients I support to maintenance contracts, increasing monthly revenue by **30%**
- Improving development speed by **40%** by translating customer feature requirements into pseudocode to accompany concise **Jira** ticket descriptions

Security Engineer

Jan 2022 - Sep 2023

- Migrated PM and developer credentials for **100+** clients from plaintext internal tool to an encrypted, NoSQL database with Remote Desktop Manager
- Developed new features to improve application security for **10+** products using Python and JavaScript in collaboration with 6 other developers
- Reinforced company cybersecurity by deploying systems in **60** Linux and Windows environments, including locally-hosted VPN, cloud backups, and company-wide antimalware deployments

Akapura Games

Software Engineering Intern

Remote

Jun 2021 - Aug 2021

- Developed a 2D platformer in **C++** with a team of 2 other engineers, 2 art designers, and a level designer
- Implemented physics & game logic for **20+** character types with RigidBody2D & Collider2D components
- Created **8** different stages with unique sprites and animation using **Unity** game engine

PROJECTS

Full-Stack Club Database | *Django, React.js, SQLite, FireBase, Git*

Sep 2024 - Present

- Constructing a SQLite database to store logins, schedules, and member info for **80+** users.
- Implementing Django back-end to provide Admin dashboard for **CRUD** operations and service 7 API endpoints
- Designing React front-end using **DRF** tokens in request headers to authenticate users and display unique content
- Utilizing **OAuth 2.0** on Django server to make calls to **Gmail API** and read one-time passwords from an inbox

Species Classification w/ Machine Learning | *Python, Scikit-learn, Pandas, NumPy*

Mar 2024 - June 2024

- Trained ML models using **Python scikit-learn** to predict animal species from physical characteristics
- Built Logistic Regression and Random Forest models that predicted penguin species at over **93%** accuracy
- Cleaned dataset using **pandas** library, processed data with **NumPy**, visualized results with **matplotlib**

E-Commerce Web Application | *Node.js, Express.js, React.js, MongoDB, Git*

Jan 2024 - Apr 2024

- Engineered full-stack E-commerce platform with **RESTful API**; sold 60+ products & supported 500+ customers
- Constructed a Node/Express backend API using **Mongoose** to interact with MongoDB Atlas for cloud storage
- Wrote React frontend that called API for **10+ CRUD operations** (e.g. place order, get item, modify wishlist)
- Implemented **JWTs** which were passed in requests for user authentication; used **NodeMailer** for email-based 2FA

LEADERSHIP

President of Alpha Epsilon Omega Cultural Fraternity | *Member since Dec 2022*

March 2024 - Present

- Increased membership by 60%, boosted total service hours by 100 per quarter, and doubled event participation
- Directed fundraiser with sister sorority for veterans' relief fund by coordinating 50+ people to raise over \$35k

President of Armenian Engineers and Scientists of America | *Member since Sep 2022*

Jan 2024 - Present

- Tripled frequency of career development events and hosted seven industry professionals for talk and Q&A panels

TECHNICAL SKILLS

Languages/Frameworks: Python, JavaScript, C++, C, Node, React, Express, Django, SQL, NoSQL

Tools: Git, SQLite, MongoDB, Postman, Jira, SQL Studio, VSCode, AWS, Firebase, Shopify, Sage, Magento, ArcGIS