Andrew Duong

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Education

University of California, Los Angeles   **Sep 2024 - Mar 2026**
Bachelor of Arts in Computer Science and Linguistics   *Los Angeles, CA*

Relevant Coursework: *Computer Architecture, Data Structures and Algorithms, Software Construction, Programming Paradigms, Phonetics, Phonology, Syntax, Artificial Intelligence*

De Anza College   **Sep 2021 - Jun 2024**
Computer Science for Transfer   *Cupertino, CA*

Experience

Illumio   **Jun 2025 - Sep 2025**
Technical Documentation Intern   *Sunnyvale, CA*
- Developed a **REST API** documentation web app using **React/TypeScript** and **Next.js**, improving developer productivity with interactive testing, multi-language code examples, and multi-version support.
- Automated **Jira** release note generation with generative AI, transforming technical updates into customer-friendly release notes and reducing the **16**-hour weekly manual task by **80**%
- Engineered a **Golang** API translation proxy for **Anthropic's Claude Code**, enabling seamless interoperability with **Microsoft Azure AI Foundry** models (e.g., GPT-5, Grok-3) while preserving full client features, including tool calling.

Association of Computing Machinery at UCLA   **Mar 2025 - Jun 2025**
TeachLA Backend Web Developer   *Los Angeles, CA*
- Architected **RESTful** authentication **API** using **Node.js**, **TypeScript**, and **MongoDB**, enabling secure user management and personalized learning experiences for children in UCLA's tech education program.
- Engineered **JWT**-based authentication system with **bcrypt** password hashing and session management, protecting sensitive student data across the platform

E-Commerce Business Owner and Secondary Market Specialist   **Jun 2019 - Jan 2024**
Self Employed   *San Jose, CA*
- Generated **$300,000 (2022-2023)** in revenue through sales of various physical goods by building and deploying custom software tools that automated product sourcing, adaptive pricing strategies, and backend operations.
- Drove a **25**% increase in customer engagement through targeted social media campaign automation, integrating scheduling and **Google Analytics** insights.

Projects

English Toxic Language Classifier
- Developed **BERT**-based moderation system using **PyTorch**, achieving **89**% accuracy in classifying toxic language in text.
- Built **Python** text preprocessing pipeline with pattern recognition and confidence scoring for robust string input handling.

AI Safety in Reinforcement Learning
- Explored AI safety in Reinforcement Learning, focusing on reward misspecification and unintended agent behaviors.
- Trained a **PyTorch** RL agent in CartPole using policy gradient methods, emphasizing reward shaping and safe exploration.

De Anza-Foothill Automation
- Developed an **Electron** app for De Anza and Foothill college course enrollment, featuring alerts and automated registration.
- Designed a concurrent automation engine in **Golang** to handle session management, course watching, and registration, eliminating manual effort and securing student enrollment in high-demand classes.
- Cloned and utilized by over **150**+ students, significantly streamlining students' course registration and enrollment journey.

Skills

Languages:	C/C++, C#, Golang, Java, JavaScript, Python, R, Rust, SQL, Swift, Lua, TypeScript
Frameworks:	Electron, Express, Flask, GraphQL, Next, Node, PyTorch, React, Selenium, TensorFlow
Databases:	AWS DynamoDB, MongoDB, MySQL, PostgreSQL, Redis
Tools:	Azure, Docker, Git, GitHub Actions, Google Cloud, Kubernetes, Jira, Heroku, Postman, Wireshark
Concepts:	Agile, Automation, Full-Stack Development, Natural Language Processing, ML, CI/CD, Microservices