

# Kelvin Fang

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## EDUCATION

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### University Of California, Santa Barbara (UCSB)

June 2028

*Bachelor of Science (B.S.), Computer Science, GPA: 3.93*

*Santa Barbara, CA*

- **Relevant Coursework:** Data Structures and Algorithms, Advanced Application Programming, Machine Learning, Computer Communication Networks, Computer Architecture, Object-Oriented Design, C++ Programming

## EXPERIENCE

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### Software Developer Intern

June 2023 – August 2023

*Google*

*San Francisco, CA*

- Reduced average user query resolution time by designing a Dialogflow-powered chatbot for Google Help, mapping 100+ user intents across 50+ Help pages to deliver accurate automated responses
- Improved chatbot accuracy to 90%+ by iterating through user simulation testing and intent validation cycles, refining entity recognition and fallback handling
- Delivered a live demo of the chatbot to 100+ attendees at the Opportunities For All Culmination event, built using HTML, CSS, and Figma prototypes

## PROJECTS

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### Project HappCows | *React.js, Java, Spring Boot, Swagger, JaCoCo, ESLint*

- Full-stack simulation game for UCSB environmental science students to learn sustainable resource management
- Improved frontend code quality by resolving 20+ React ESLint violations, reducing recurring build failures and CI pipeline errors across a 6-person team
- Implemented backend CRUD endpoints for course creation using Spring Boot and Swagger-documented REST APIs, serving UCSB environmental science students
- Increased test coverage as measured by JaCoCo mutation testing reports by writing targeted unit tests for edge cases in course management logic

### California Wildfire Prediction | *Python, scikit-learn, Flask, Leaflet.js, pandas*

- Achieved 86% classification accuracy across 7 fire-size classes as measured by per-class precision, recall, and F1 scores by training a Random Forest model on 140,000+ wildfire records
- Engineered a balanced training pipeline by oversampling underrepresented fire classes with stratified resampling, improving per-class recall for rare large-fire events (classes E-G) to 98%+
- Deployed a full-stack prediction tool by building a Flask REST API serving the trained model and integrating a Leaflet.js interactive map for real-time geospatial coordinate input
- Won 1st place in Predictive Modeling out of 52 teams at UCSB's DataOrbit Winter 2025 hackathon

### Outfit Recommendation Program | *Python, Yelp Fusion API, OpenWeatherMap API*

- Achieved real-time outfit recommendations across 4 weather categories and 30+ clothing items by integrating OpenWeatherMap API for live temperature data and mapping ranges to clothing types
- Surfaced 20+ local store results per recommendation by integrating Yelp Fusion API, displaying store ratings, price, tiers, and addresses
- Won "Most Technical Project" out of 30+ demos, presenting a live multi-API demo to 150+ attendees

### Thinkboard | *React.js, MongoDB, Express.js, Node.js, Tailwind CSS, Render*

- Built a full-stack MERN application supporting note creation, editing, and deletion
- Implemented RESTful APIs with Node.js and Express, connecting to MongoDB with Mongoose
- Integrated Upstash Redis for rate limiting, preventing excessive requests, and improving app reliability

## TECHNICAL SKILLS

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**Languages:** Python, C++, Java, JavaScript, TypeScript, Assembly

**Frameworks & Databases:** React.js, Next.js, Express.js, Node.js, Tailwind CSS, MongoDB

**Developer Tools & Libraries:** Git, GitHub, Swagger, JaCoCo, Render, PyTorch, scikit-learn, pandas