

# Ethan Lukas

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## EDUCATION

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### University of California, Irvine

March 2025

Bachelor of Science in Computer Science, Specialization: Artificial Intelligence/Machine Learning

GPA: 3.929

**Awards:** Dean's Honor List (11x), Phi Beta Kappa Honor Society Book Award, Rose Hills STEM Scholarship (2x), Northrop Grumman Scholarship for Employees' Children Award

**Relevant Coursework:** Introduction to Artificial Intelligence, Machine Learning & Data Mining, Design and Analysis of Algorithms, SQL/Database Management, Information Retrieval, Data Structures, Discrete Math and Structures

## TECHNICAL SKILLS

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**Languages:** Python, Java, JavaScript, TypeScript, C/C++, SQL, HTML, CSS, Swift, Ruby

**Tools & Frameworks:** React, AWS, Amazon Bedrock, Ruby on Rails, Git/GitHub, Xcode, RESTful APIs, Docker, Excel

## PROFESSIONAL EXPERIENCE

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### Altru AI - Capstone Project, Software Developer

September 2024 - December 2024

- Collaborated in the design and development of user-centered features for an AI platform in a sponsored capstone project, using React and agile methods to streamline college application management for students

### Instructure - Software Engineer Intern

June 2024 - September 2024

- Pioneered a Generative AI feature using AWS, Amazon Bedrock, Large Language Models (LLMs), and React, automating question generation for educators, saving hours in content creation and supporting millions of users
- Implemented Retrieval-Augmented Generation (RAG) with a knowledge base, utilizing SQL databases to provide relevant context for AI-generated questions, ensuring alignment with educational standards
- Identified and resolved numerous bugs in a large-scale web application used by millions globally, in an agile environment using React and Ruby on Rails, increasing system reliability and enhancing key feature performance
- Created and deployed a game bot, optimizing gameplay by leveraging strategic RESTful API interactions through HTTP POST and GET methods to enable optimal decision-making logic

### PricewaterhouseCoopers - Consulting Solutions Intern

June 2023 - July 2023

- Conducted extensive data analytics and cleanup using Microsoft Excel and PowerBI, reducing inconsistencies and redundancy by 75% to ensure accurate reporting and analysis
- Led a Pro Bono Client Project with a seven-person team, utilizing research and data analysis to produce strategic insights and recommendations, driving data-driven decision-making and boosting user engagement

## PROJECTS

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### Personalized Contact List Manager ([GitHub](#))

- Developed a full-stack Ruby on Rails web application, integrating secure user authentication with Devise and robust account management features, enhancing individualized user experiences
- Implemented a database schema using ActiveRecord to manage, search, and edit personalized contact lists, displayed within a responsive frontend interface built with Javascript, HTML, and CSS

### Campus Restroom Locator ([Devpost](#) | [GitHub](#))

- Collaborated with a team of four to design a mobile app using Swift and Xcode, integrating MapKit API to provide location-based services for campus restroom navigation during the IrvineHacks Hackathon competition