

# TIMOTHY HRADIL

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## WORK EXPERIENCE

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**Amazon**, Santa Clara, CA

### Software Development Engineer 1

December 2023 – Present

- Fabricate scalable, secure solution to handle confidential user data for FMCSA compliance auditing for over 200,000 drivers.
- Contribute bug fixes and feature enhancements to iOS and Android applications using SwiftUI, UIKit, Java, and Kotlin.
- Ensure operational excellence of business-critical services through alarms, ticketing, and on-call rotation.

**SlideNotes**, Santa Clara, CA

### Cofounder

Jan 2023 – Present

- Grow total users to 5000+ and paid users to 100+ through SEO and organic marketing.
- Employ OpenAI Python API Wrapper to utilize GPT-3 for AI text generation and summarization.
- Design a highly scalable full stack app using AWS SAM CLI to turn .pptx presentations into written notes.

**SpaceX**, Redmond, WA

### RF Silicon Software Engineering Intern

June 2023 – September 2023

- Built 7 servers and 2 clients in C++ for cross compilation to ARM32 on CentOS using CMake.
- Wrote 5 clients in C# using dependency injection for loose coupling and future upgradability.
- Applied Grpc to build 5 APIs (I2C, SPI, etc.) between lab computer and dev board to run an automated RFIC Silicon testing suite.

**Amazon**, Virtual

### Software Development Engineer Intern

June 2022 – September 2022

- Architected a full stack CMS solution for content on the Amazon Relay platform.
- Leveraged React.js and Typescript to build a dynamic and intuitive front end user experience.
- Utilized a Sprint Boot MVC with AWS services including Lambda, DynamoDB, and IAM as a backend.

**humanID**, Virtual

### Tech Lead

August 2021 – March 2022

- Directed a team of 15+ developers utilizing effective delegation and collaboration techniques.
- Groomed backlog by measuring impact and cost to choose the most valuable projects for each sprint.
- Spearheaded tech team vision to consistently align with key performance indicators and company values.

### Software Developer Intern

February 2021 - August 2021

- Cooperated with product managers in 3 week-long sprints to maximize performance.
- Wrote clear and concise documentation for 2 tools to empower collaboration through GitHub.
- Developed front end user interface elements from a spec sheet utilizing HTML, CSS, and JavaScript.

**Dakota Systems, Inc.**, Chicago, IL

### Software Developer Intern

June 2018 - September 2018

- Authored highly maintainable code in python for an AWS system.
- Compiled data from 5 Instagram Accounts for statistical analysis in Python.
- Designed new product elements using AWS Rekognition and Instagram API.

## EDUCATION

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**Santa Clara University**, Santa Clara, CA

**M.S. in Engineering Management and Leadership**, June 2024.

**B.S. in Computer Science and Engineering**, June 2023.

- Tau Beta Pi Honors Society.

## PROJECTS

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- **Chat With Me**: Constructed a ChatGPT-like interface in React and backend using GPT-3 API to create a chatbot as an interactive resume.
- **Personal Website**: Fabricated personal website, using Hugo, built to hold projects and blogs both personal and professional.
- **OpenCV Mask Detection**: Trained a machine learning model using OpenCV to detect a person wearing a face mask on a webcam.
- **Blackjack Machine Learning**: Designed reinforcement learning algorithm in Java to teach a computer to play Blackjack with 113% growth.

## ACHIEVEMENTS

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- **2023 ACM Winter Challenge**: Architected and built a SAAS solution for turning presentations into notes using OpenAI ChatGPT API.
- **2021 Hack for Humanity Interdisciplinary Award**: Created a Flutter App with Flask and Redis backend to score colleges on mental health resources with a team of 5.
- **2021 ACM Winter Challenge**: Composed computer vision program using OpenCV in python to detect whether a user is wearing a mask or not.

## SKILLS

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- Technical Skills: HTML, CSS, JavaScript, Java, Kotlin, C, C++, C#, CMake, Python, Git, Grpc, AWS, Linux.
- Soft Skills: Technical Communication, Growth Mindset, Creativity, Emotional Intelligence.
- Interests: Technology, Soccer, Music, Reading.