

# Samiksha G Karimbil

(669)246-3636 | samiksha.gk29@gmail.com | github.com/samikshakarimbil | linkedin.com/in/samiksha-karimbil

## Education

**B.S. Computer Science**, California Polytechnic State University

09/2022 – 06/2026

San Luis Obispo, United States

Relevant Coursework: Data Structures, Project-Based Object-Oriented Programming and Design, Computer Organization, Discrete Structures, Systems Programming, Algorithm Design and Analysis, Software Engineering

## Professional Experience

**Data Visualization Specialist**, Redinent Innovations

08/2024 – 09/2024

- Visualized data using the Chart.js library in JavaScript to monitor uptime and status of devices
- Accessed data through an API to create helpful visualization of device statuses, supporting effective monitoring
- Created bar, line, doughnut and pie charts along with count metric panels to keep track of device uptime and HTTP and RTSP statuses

**Software Intern**, Purplefront Technologies

04/2021 – 05/2021

- Developed a desktop application with Python for onboarding new employees
- Designed a user friendly, accessible user Interface using Figma and React with NodeJS
- Implemented a database using PostgreSQL for storage of user information, integrated with an ExpressJS backend

**Space Intern**, Team Indus

08/2020

- Implemented a navigational algorithm to detect location of rovers
- Simulated the flight path of a satellite using GMAT
- Mentored by engineers working on live space projects
- Learned about Aerospace Mission Design, Image processing, Aerodynamics and Structure configuration

**Instructional Student Assistant**, California Polytechnic State University

10/2023 – Present

- Assess and grade calculus homework assignments, offering constructive feedback to students
- Ensure accuracy and consistency in grading by adhering to established rubrics and guidelines
- Demonstrate strong time management skills by consistently meeting grading deadlines

**ITS Service Desk Student Tech**, California Polytechnic State University

02/2024 – Present

- Provide technical support to students, staff and faculty through walk-ins, tickets and phone calls, addressing a variety of technical issues promptly and effectively
- Use softphone systems along with Jira to remotely help customers
- Collaborate with coworkers to escalate complex issues and ensure timely resolutions

## Projects

**FoodFinder App**, Languages and tools utilized: AWS, Typescript, React, Express, PostgreSQL

- Developed a fullstack web application that makes it easier for people to discover, decide on, and share restaurant options
- Created an intuitive user interface using figma, implemented through React and MUI library in TypeScript
- Implemented a RESTful backend API using ExpressJS, enabling users to search for restaurants, users, and reviews and post their own reviews

**Health Tracker App**, Languages and Tools utilized: ReactJS, ExpressJS, Figma, MongoDB, Jest

- Developed a full stack web application with a team to allow users to keep track of their health and diet with calendar, reminder and diary features for users to track their pills, diet, exercise and emotions
- Used Figma to create a simple user interface, developed it using React in Javascript along with HTML and CSS for styling
- Used MongoDB to create the database to store user information and data, and ExpressJS to process requests from the frontend

**A\* Pathing Algorithm**, Languages and Tools utilized: Java, PApplet

- Utilized functional interfaces, abstract classes, lists, priority queues, and hash maps to implement A\* searching algorithm on Java
- Used A\* algorithm in order to find the fastest route between current and final locations and to minimize the time it takes for the character to perform its duty

**Quiz Desktop App**, Languages and Tools utilized: Java, Swing

- Created a quiz application using Java that allows users to play a quiz game
- Used Swing library for a simple user interface
- Stored questions in a text file that is easily modified

## Skills

**Programming Languages** — Java, Python, C/C++, SQL, JavaScript, TypeScript, HTML/CSS, Racket

**Software Tools** — React, NodeJS, ExpressJS, MongoDB, MySQL, NoSQL, Git, Figma, AWS (S3, RDS), Unix/Linux, Vim, GDB, Valgrind