

# Gurdeep Gill

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## PROFESSIONAL SUMMARY

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Motivated software engineering graduate skilled in **Java**, **C#**, **JavaScript**, and **Node.js**. Proficient in **MERN stack** and **Agile** methodologies, delivering user-focused solutions. Reduced manual testing time by **30%** at Thermo Fisher Scientific.

## EDUCATION

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### Bachelor of Science in Computer Science

California State University, Sacramento

- Coursework: **Data Structures**, **Algorithms**, **Software Engineering**, **Databases**

## SKILLS

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- **Languages:** Java, C#, Python, JavaScript, Node.js, HTML, CSS
- **Frameworks & Tools:** MERN Stack, CUnit, TestStack, Visual Studio, VMware, Git, Jira
- **Methodologies:** SCRUM, Agile, Automation Testing, Debugging
- **Concepts:** Data Structures, Algorithms, RESTful APIs, MVC Architecture

## EXPERIENCE

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### Software Engineering Intern

Feb. 2021 – Feb. 2022

Thermo Fisher Scientific, Fremont, CA

- Developed **Alpha**, **Beta**, and **Smoke** test cases, contributing to the customer user manual.
- Automated test cases using **C#**, **CUnit**, **Visual Studio**, **TestStack**, reducing testing time by **30%**.
- Simulated **embedded systems** via **VMware** to validate software pre-release.
- Documented defects in **Jira**, liaising between field and engineering teams.
- Trained interns and QA engineers on testing tools.

### Freelance Software Engineer, Project Cantina

Jan. 2023 – Dec. 2023

Remote

- Developed a food ordering web application using **MERN stack** and **MVC architecture**, implementing **JWT** for secure user authentication and real-time order tracking with **WebSocket**.
- Designed an admin dashboard with **React.js**, optimizing **Redux** state management for efficient menu updates and order processing, improving user response time by **20%**.
- Integrated **RESTful APIs** with **Express.js** and **MongoDB** for seamless **CRUD** operations, ensuring robust data handling for high transaction volumes.

### Freelance Software Engineer, Discord Bot

Feb. 2024 – Aug. 2024

Remote

- Built a **Node.js** and **MongoDB**-based Discord bot for interactive games (**Blackjack**, **Slots**, **Roulette**), using **Discord.js** for event-driven interactions and persistent player profiles.
- Engineered a live betting system with **Node.js**, dynamically generating odds using **statistical algorithms**, boosting user engagement by **50%** through real-time match betting.
- Implemented a virtual economy with **MongoDB** for reward systems and cooldowns, optimizing database queries to handle monthly transactions.

## PROJECTS

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### Hornet Fire Game

2023

- Developed a 2D game using **Java**, **Codename1**, with **OOP**, **MVC**, and **AI NPC** interactions.

### Vinculum Movie Website

2023

- Built a **JavaScript**, **HTML** website using **REST APIs**, **JSON** for filtered movie searches.