

Raghav Batra

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PROFESSIONAL SUMMARY

Detail-oriented Software Engineer with extensive experience in developing and optimizing software systems. Proficient in Python, Java, and JavaScript, with a strong background in AI-driven projects and web development. Passionate about leveraging technology to drive innovation through collaborative and impactful projects, aiming to contribute to reliable and efficient software solutions.

EDUCATION

Santa Clara University, School of Engineering

B.S. in Computer Science and Engineering & Minor in Mathematics

Expected Graduation: **June 2024**

Relevant Courses: Machine Learning, Artificial Intelligence, Computer Networks, Compilers, Operating Systems, Computer Architecture, Theory of Algorithms, Data Structures and Programming, Object Oriented Programming & Advanced Structures, Linear Algebra, Differential Equations

SKILLS

C++, Python, Java, JavaScript, React, TypeScript, Bash/Shell scripting, SQL, NoSQL, HTML5, CSS, Google Firebase, Docker, Linux, Git, Unit testing frameworks, Agile development, Multi-threaded software development, FSMs, Software Design Patterns, PyTorch

PROJECTS

E-scooter Black Box

May 2024

- Developed a React-based web application to display key metrics and user statistics for service providers, aiding in the monitoring and management of E-scooter usage
- Collaborated on a group project to create an E-scooter solution with firmware, iOS app, machine learning, and web app to deter undesirable riding behaviors, enhancing longevity and ride-sharing feasibility

HelpLink

February 2023

- Developed an event management application using **Swift UI** and **Google Firebase** as part of a team of five
- The application streamlined even organization by enabling easy sharing of important medical data and emergency contacts among attendees, ensuring their safety and well-being

PROFESSIONAL EXPERIENCE

Cloud Automation Intern | Nokia | Sunnyvale, CA

Sept 2023 - Present

- Enhanced an existing script through the addition of comprehensive comments, optimization of syntax, and refinement of logic
 - 20% improvement in program efficiency
 - expedited future team members' comprehension, saving them approximately 5 hours each in navigating and understanding the codebase
- Transformed Excel files into JSON format to facilitate seamless execution of Python scripts for targeted server tasks

Artificial Intelligence Intern | Inovaare Corporation | Milpitas, CA

July 2023 - Sept 2023

- Developed a web application to generate synthetic data for training a **Large Language Model** (LLM) using the Self Instruct Model, with application in the healthcare tool "Usher"
- Created file parsing functions and implemented metadata filters to extract relevant information
 - decreasing data processing time by 50% for answering customers inquiries
- Utilized **Generative AI** to produce synthetic data for fine-tuning models, resulting in 20% increase in algorithm performance and 30% increase in model accuracy

Software Developer | NachoNacho | San Francisco, CA

June 2022 - Sept 2022

- Took ownership of developing a production environment using software development to showcase service features to buyers and sellers
- Implemented a download queue using software applications like **Prisma**, **TypeScript**, **React**, and **GraphQL**, providing customers visibility into the duration of their download
- Demonstrated excellent communication skills in a professional fast-paced environment through collaboration and organized code and innovation of technologies to meet deadlines and propel development with a strong focus on customer satisfaction