

Yash Puneet

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SUMMARY

Enthusiastic and curious computer engineering major, with a minor in psychology, passionate about finding innovative solutions to problems by combining various disciplines. Experienced with implementing persistence through SQL Relational Databases and developing solutions using object-oriented programming languages such as Java, C++ and Python. Adept at learning and experimenting with new technologies.

EDUCATION

UNIVERSITY OF CALIFORNIA, SAN DIEGO

Third Year Undergraduate, Bachelors of Science, Computer Engineering Major, Psychology Minor

Expected Graduation: June 2024

GPA: 3.84

Organisation Involvement: IEEE@UCSD RoboCup Soccer Team Mechatronics Lead

RELEVANT SKILLS

Technical: Java (Intermediate), C++ (Intermediate), Python (Intermediate) – Including Flask, HTML & CSS (Intermediate), Object-Oriented Design, SQL Relational Databases, Arduino, Raspberry Pi, Git/Github Version Control, Android Development (Basic), Advanced Data Structures, Searching and Sorting Algorithms, Time and Space Complexity Analysis

Languages: English (Fluent), French (Conversational), Hindi (Native - Spoken),

PROFESSIONAL EXPERIENCE

UCSD Academic Achievement Hub, La Jolla, California

January 2022 - Present

Math Supplemental Instruction Leader (Positions: Tutor, Course Team Leader and Mentor)

- Support 600-800 students every quarter with linear algebra and multivariable calculus college level classes through active learning sessions
- Lead the linear algebra tutor team, providing a connection with the rest of the instructional staff and supporting them in successfully completing their duties and overcoming any obstacles/concerns they may face
- Mentor new recruits to help them run successful sessions and meet the expectations of the department

Sixth College Student Council UCSD, La Jolla, California

September 2020 – April 2022

International and Out-of-State Student Senator

- Advocated for policies and accommodations for constituents to make their transition into college smoother and more pleasant
- Organized 8 events and campaigns with other council members to raise awareness of available support resources

TwimBit Pte. Ltd, Singapore

November 2019 – February 2020

Web-Application Design and Development Volunteer

- Designed and Developed a web-application using HTML and CSS, and deployed it using Python Flask
 - Used MySQL as a Relational Database to achieve persistence by storing and retrieving user data
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PROJECTS

SLAM Algorithms and the Dual Process Theory of Cognition in Spatial Mapping

June 2018 – February 2020

- Individual, Self-led, Cross-disciplinary Research Project supervised by a Mentor
- Analyzed Tiny Spatial Localization and Mapping Algorithms (SLAM) written in C and built two Arduino Robots, one with a single board and the other with two, to simulate Human Dual-Process Cognition through Parallel computing
- Implemented one step in the SLAM Process in Arduino C to test on both robots and collected statistical results measuring differences in accuracy and speed, finding a 138% improvement in performance

Amazon Web Services Project: Alexa Skill - Motivational ToDo List

July 2022

- Developed an Alexa Skill that provides a random task from a user's ToDo list, with a few words of encouragement.
- Created an AWS Lambda function in Node.js to handle the back-end processing based on a recognized intent from the user's voice input
- Implemented persistence using AWS DynamoDB to store the user's task list and keep track of user progress.

TritonBites: CodePath Android Development Final Team Project

November 2021

- Worked in a team to design an android application to help students at UCSD find and review food around campus
- Used Github to manage workflow by assigning tasks and issues, version control code and maintain documentation
- Developed wireframes and used recycler views, in-built mobile cameras and google maps location services