Shayan Halder

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EDUCATION

University of California, Irvine (UCI)   Irvine, CA
Computer Science (B.S)   *Expected Graduation: June 2026*
- GPA: 3.95

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Java, HTML/CSS, SQL
Frameworks/Libraries: React, Node.js, MongoDB, Express, Electron, Flask, Django, Mongoose, Sockets, SQLite3
Other: Object-oriented Development, Git, Docker, Unit Testing, Test-Driven Development, Linux, Bash Scripting, HTTP, REST API, Agile Methodology, Data Structures & Algorithms, Cron Jobs, CRUD, Jira, Confluence

EXPERIENCE

Flow Global Software Technologies   April 2024 - August 2024
Software Development Intern   *Remote*
- Developed the frontend of a sales productivity-enhancing desktop application using Electron.js and React.js.
- Integrated LinkedIn embedded popup modal to improve sales rep outreach efficiency by 20%.
- Updated frontend components to match backend contacts model schema changes for storing lead information in PostgreSQL database.
- Resolved unexpected 404 popup during remote JS execution on LinkedIn modal to automate connection requests

NASA L'SPACE Mission Concept Academy   May 2024 - August 2024
Computer Engineering Planner   *Remote*
- Collaborated in team of 15 students to plan a mock NASA mission to search the moon's south pole for ice-water.
- Conducted Failure Mode and Effect Analysis to track the severity of 10+ subsystem risks.
- Composed documentation for 11 API routes for transmission of text/image/command data from Mission Control.
- Produced software architecture flowchart and pseudocode to integrate requirements from thermal, power, and payload subsystems.
- Developed recovery/redundancy protocol to autonomously regulate rover subsystem health metrics.

PROJECTS

Viewpoint News Bias Web Application ☑ | *React.js, Node.js, Express, MongoDB*   August 2023 – Present
- Designed and developed a Full-stack web application showcasing news bias from left and right-wing sources.
- Webscraped trending topics to showcase up to 30 popular stories daily using Node.js REST API.
- Implemented news diversity algorithm to parse API output of 100+ articles and maximize variety of sources.
- Integrated sentiment analysis library to analyze and display mood of news articles to showcase biased language.
- Updated database of 150+ past news stories with daily scheduled Cron Jobs to webscrape new trending topics.

University Course Planner ☑ | *React.js, TypeScript, Node.js, Express, MongoDB*   April 2024 – Present
- Developed 4-year Bachelor's Degree course planner for students at UC Irvine in a team of 6 developers.
- Integrated tree parsing algorithm to enforce prerequisites for 1000+ courses in 100+ academic departments.
- Architected state logic structure for drag-drop functionality to associate courses with an academic term.

BASIC Interpreter ☑ | *Python, Flask, React.js, Sockets, Unit Testing*   January 2024 - March 2024
- Developed an interpreter in Python for BASIC, a primitive high-level general purpose programming language.
- Parsed, lexed, and tokenized user input for proper run-time validation and execution.
- Implemented flask sockets to establish real-time connection between client and server to asynchronously control interpreter execution.
- Engineered 70+ unit tests with test-driven development and object-oriented design to ensure proper output.

HACKATHONS & AWARDS

- UC Irvine WebJam 2023 - 2nd Place Winner
- UC Irvine ZotHacks 2023 - 2nd Place Winner