

Jason Shetty

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<https://github.com/jasonxshetty> | <https://jasonxshetty.github.io/Portfolio-Website/>
U.S. Citizen

Education:

University of Texas at Dallas | *Bachelor of Science in Computer Science*

Graduating: December, 2025

Relevant Coursework: Operating Systems, Computer Networks, Programming Language Paradigms, Data Structures and Algorithmic Analysis, System Programs in Unix, Probability and Statistics in C.S., Discrete Mathematics, Computer Architecture, Linear Algebra

Technical Experience:

University of Texas at Dallas

August - December 2024

Software Engineer

- Developed and implemented API integrations with Python and RESTful APIs, between the TeamBuilder app, Discord, and GitHub, streamlining the onboarding process for EPICS project teams each semester.
- Spearheaded the design and development of a web application module using React.js and Node.js, automating team assignments and improving operational efficiency.

Freelance

May - August 2024

Software Consultant

- Advanced Automation Testing: Streamlined website navigation and testing, reducing manual testing efforts by 67% and enhancing overall reliability.
- Bespoke Website: Increased online presence and user engagement by over 30%, tailored to specific client needs.
- Performance Enhancement: Optimized speed and responsiveness, reducing page reload time from 4 seconds to 3 seconds, leading to a 25% increase in user satisfaction and a 20% boost in traffic.

Projects:

Project FINN | *Python* | *Mycroft AI* | *Microsoft Azure TTS* | *Tesla API* | *Raspberry Pi*

June - July 2024

- Designed and deployed an advanced AI assistant for Tesla which enables voice-activated queries and real time vehicle data retrieval through Tesla API, handling over 100 voice commands per day.
- Developed custom skills and integrated a bespoke Text-to-Speech engine which provides all round natural assistance
- Executed comprehensive system testing and optimization achieving 99% system reliability and reducing response times from 5 seconds to 3.5 seconds.

Investment Strategies (Fin-Tech Hackathon) | *Python* | *Javascript* | *FastAPI* | *Visual Studio Code*

April 2024

- Developed a web-based tool for investment decision making using sentiment analysis of financial news.
- Parsed XML-formatted RSS feeds and integrated Natural Language Toolkit (NLTK) for sentiment scoring.
- Visualized sentiment data through interactive graphs, aiding users in identifying investment opportunities.
- Achieved an accuracy of 78% in terms of representing certain stock trends with sentiment analysis.

To-Do List Application | *Java* | *IntelliJ IDEA*

November 2023

- Designed a task management system utilizing linked lists and custom sorting algorithms.
- Enabled sorting by due date, description, and time entered to optimize user workflow and task management.

Technical Skills:

Programming Languages:

- Java, Python, Swift, C++, MIPS, JavaScript, HTML, CSS

Frameworks:

- FastAPI, Next.js, Node.js, Mycroft AI, Flask/Django, Google TTS, Microsoft Azure TTS, Selenium, React, Angular, Vue.js

Technologies:

- Axios, Pandas, Radix, Microsoft 365, XML, NLTK, MongoDB, Linux, Unix, AWS, Tesla API, Voice Recognition, Text-to-Speech (TTS), Web Automation, Performance Optimization, iOS Development

Tools:

- Visual Studio Code, IntelliJ IDEA, MARS, Figma, Git, GitHub, Raspberry Pi, Raspbian OS, Lighthouse, GTmetrix

Specialized:

- UX (User Experience), UI (User Interface) Design, Algorithm Design and Analysis, Database Management, Version Control, API Development, Web Development, Machine Learning, Software Testing, Cloud Computing, Cross-Platform Development, Automation Scripting

Soft:

- Problem-Solving, Attention to Detail, Team Collaboration, Project Management, Troubleshooting, Critical Thinking

Accomplishments:

IBM Cyber Security Fundamentals Badge

April 2023

- Demonstrated knowledge in cyber threat groups, attack types, social engineering, security strategies, and cryptography.