

# NAVANEETH P *final-year Electrical Engineering student*

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## Profile Summary

Final-year Electrical Engineering student specializing in AI-powered QA automation. Proven ability in building full-stack, agent-based systems, demonstrated by developing a tool that generates Playwright test scripts from natural-language prompts using LLMs. Highly skilled in Python, Selenium, Playwright, FastAPI, and Streamlit, and eager to contribute automation expertise and problem solving skills to a dynamic software development team

## Academic Qualification

<b>Bachelor of Technology in Electrical and Electronics Engineering,</b> NSS College of Engineering, Palakkad, Kerala CGPA/Percentage   7.14 out of 10	2026 Palakkad, Kerala
<b>12th, Kendriya Vidyalaya, Coimbatore, Tamil Nadu (CBSE)</b> 86.6%	2022 Coimbatore, Tamil Nadu
<b>10th, Kendriya Vidyalaya, Coimbatore, Tamil Nadu (CBSE)</b> 88.4%	2020 Coimbatore, Tamil Nadu


## Technical Skills

<b>Programming Languages:</b> Python, JavaScript (Basic), C (Basic)	
<b>QA Automation:</b> Selenium, Playwright, Pytest, WebdriverIO, XPath, Test Case Design	<b>Version Control:</b> Git
<b>Web Development:</b> FastAPI, Streamlit, HTML, CSS	<b>Tools:</b> VS Code, Command Line, Docker

## Professional Experience

<b>4Labs, Software Engineer - Intern</b> <ul style="list-style-type: none"><li>Architected and developed <b>Qualetee</b>, a modular, agent-based system that automatically generates executable test scripts (Playwright + Pytest) from simple, natural-language prompts.</li><li>Engineered a multi-agent framework where specialized agents, including a <code>dom_flow_scrapper_agent</code> and <code>test_scripts_generator_agent</code>, collaborated to produce complete test packages.</li><li>Implemented a core <b>prompt guardrail</b> agent to validate user input, ensuring that only relevant QA prompts would trigger the resource-intensive script generation workflow.</li><li>Built a full-stack solution with a Streamlit UI for submitting requests and a FastAPI backend with REST endpoints for initiating generation, checking job status, and downloading the final test framework.</li><li>Leveraged Playwright for automated, multi-page DOM scraping and integrated various LLMs (Gemini, Claude) via LangChain to interpret user prompts and generate test code.</li></ul>	06/2025 – 07/2025 Thiruvananthapuram, Kerala, India
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## Projects

<b>Word Game – Browser-Based Puzzle (JavaScript, HTML, CSS)</b> 
<ul style="list-style-type: none"><li>Developed a responsive web-based word puzzle game with 100 handcrafted levels.</li><li>Implemented drag-and-drop letter selection for both mouse and touch devices.</li><li>Designed intuitive UI/UX, hint system, and level selection features.</li><li>Integrated dictionary validation and progress tracking.</li><li>Deployed as a static site (Netlify/GitHub Pages); code managed via GitHub.</li></ul>

## Certifications & Professional development

<b>Introduction to Internet of Things, NPTEL</b> — April 2025
<b>Attendee, Self-Driving Electric Vehicles Webinar, Techmaghi</b> — February 2023
<b>Attendee, Using Technology for Humanity Seminar, IEEE, NSSCE</b> — June 2023

## Hobbies & Extra-Curricular Activities

<b>Chess</b> — College Team Captain. Won prizes in multiple intercollege/open tournaments. Organized and hosted 2 All-Kerala Open Chess Tournaments in College.
<b>Competitive Gaming (Pokemon Go)</b> — Achieved #1 Global Leaderboard ranking and qualified twice for the World Championship.
<b>Other Interests</b> — Movies, Music, Sports.