

Nathaniel Christy

Full Stack Developer

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PROFILE

Passionate IT Professional with 5+ years of experience in Software Development, Data Analysis and automation projects (RPA). Proficient in Database Management like MySQL and MongoDB, Programming Languages like Python and Java, Visualization with Power BI and Automation with Selenium. A strong attention to detail and ability to work collaboratively in team setting. Seeking a position to enhance skills, contribute to organizational goals, and experience long-term career growth.

SKILLS

Programming Languages <ul style="list-style-type: none">• Python• Java	● ● ● ● ●	Web Applications Development <ul style="list-style-type: none">• HTML• CSS• Django• React• Node JS• Express JS• JavaScript• TypeScript	● ● ● ● ●
Cloud Infrastructure <ul style="list-style-type: none">• Amazon Web Services• Google Cloud Services	● ● ● ● ●		
Containerization Docker, Docker Compose, Docker Hub.	● ● ● ● ●		
CI/CD GitHub Actions	● ● ● ● ●	Database <ul style="list-style-type: none">• MySQL• MongoDB	● ● ● ● ●
Project Management	● ● ● ● ●	Version Control <ul style="list-style-type: none">• GIT	
Team Collaboration & Knowledge Sharing	● ● ● ● ●	Selenium Automation	● ● ● ● ●
Code Documentation	● ● ● ● ●	Public Database Insights Extraction	● ● ● ● ●
		Technical Concepts Communication	● ● ● ● ●

PROFESSIONAL EXPERIENCE

Software Developer <i>TravNook Travel & Tourism</i>	07/2024 – present Dubai, Dubai
<ul style="list-style-type: none">• Developed and maintained automated web scraping solutions using Python and Node.js, leveraging tools like Selenium, Scrapy, BeautifulSoup, Puppeteer, and Cheerio to extract and process structured/unstructured data efficiently.• Optimized scraping processes with advanced techniques such as proxy management, CAPTCHA bypassing, and data parsing, ensuring accuracy and compliance with project deadlines.• Collaborated with cross-functional teams, utilizing Git for version control, and deployed scalable data extraction solutions on AWS, enhancing performance and reliability.• Applied strong problem-solving and debugging skills to analyze network protocols, browser tools, and dynamic web elements, ensuring robust and maintainable scraping workflows.	
Full Stack Web Developer <i>Zenith Advertising LLC</i>	02/2024 – 06/2024 Dubai, UAE
<p>Developed and deployed a full-stack web application for managing jobs and users with real-time notifications and role-based access control.</p> <p>Key Responsibilities:</p> <ul style="list-style-type: none">• Built RESTful API and managed MongoDB with Mongoose.• Developed a responsive frontend with React and integrated with the backend API.• Implemented real-time features using Socket.IO.• Containerized the application using Docker and Docker Compose.• Deployed and orchestrated containers on AWS ECS and EC2.	

- Managed static assets and database using AWS S3 and RDS.
- Automated CI/CD pipeline with GitHub Actions for testing, building, and deployment.

Software Developer

Ecesis Care PVT LTD

03/2021 – 01/2024
Trivandrum, India

- Led Python development projects: Enhanced scalable solutions and data-driven decisions through collaboration with researchers on public database insights.
- Implemented Selenium automation scripts: Significantly decreased manual tasks, ensuring detailed documentation for productivity and teamwork.
- Conducted data analysis: Extracted and analyzed data from MySQL for decision-making in the BPO operations department, tailored to specific requirements. Utilized MySQL, MS Excel, Power BI and Python.

Achievements:

- Awarded 'Best Employee of the Quarter' for outstanding performance and project contributions.
- Spearheaded automation development, improving operational efficiency by 30%.
- Recognized for translating technical concepts to non-technical stakeholders, strengthening collaboration.
- Consistently managed and delivered projects on time, showcasing exceptional project management skills and dedication to excellence.

Django Developer

ARTIL SOLUTIONS

04/2019 – 02/2021
Trivandrum, India

- Key contributor to scalable web applications using Django, enhancing user experience and functionality.
- Developed responsive frontends with HTML, CSS, Bootstrap, improving visual appeal.
- Managed databases; optimized queries for faster application performance.

PROJECTS

MERN Stack Application for Job and User Management

Developed a job and user management portal with real-time notifications and role-based access control. Utilized React and Ant Design for the frontend, Node.js and Express for the backend, and MongoDB for the database. Containerized applications with Docker and deployed on AWS (EC2, ECS, S3, RDS). Implemented CI/CD pipeline using GitHub Actions.

Acceptance Control Panel Development

Developed a management portal for client requirements in an AGILE SCRUM environment. Organized daily status reports. Used HTML, CSS, Bootstrap (frontend), Django (backend), MySQL (database), and GIT (version control).

Auto Acceptance Automation System

Automated data scraping from real estate valuation webpages to collect relevant client data. Used Python, MySQL, and Selenium. Captured client orders automatically using Cron jobs for scheduling.

Automated Data Entry Project

Developed automation software for entering Broker Price Opinions into various real estate platforms, reducing manual effort and improving accuracy. Used Java, MySQL, and Selenium.

Data Integration and Analysis

Provided insights into property value assessments by integrating data from multiple sources, including public webpages like Zillow and Redfin, to generate accurate Broker Price Opinions. Used MySQL, Python, and Selenium.

Automated Visa Appointment Scheduling System

Led the development of a robust automation system to streamline the visa appointment booking process for high-demand embassies. Utilized Python, Puppeteer, and Selenium to mimic human interactions with embassy portals, bypass CAPTCHAs, and manage session persistence. Implemented proxy rotation and smart retry logic to handle rate-limiting and page timeouts. The solution significantly reduced manual effort, increased booking success rates, and ensured round-the-clock availability. Deployed and monitored the system on AWS EC2 with logs and alerts for reliability and performance tracking.

CERTIFICATES & INDUSTRY TRAINING

Team Lead Training

DCUBE Ai - Trivandrum

Completed a program focused on leadership skills, team management, and project coordination, including task delegation, conflict resolution, and performance evaluation through hands-on projects.

Certified Specialist in Full Stack Development (MERN STACK)

Certified Specialist in Full Stack Development (315 hours) program conducted by ICT Academy of Kerala in association with NORKA ROOTS from 18 October 2021 to 26 March 2022

Full Stack Web Developer Course (Django)

MashupStack, Trivandrum (2019)
Completed training in full-stack web development focusing on Django framework, covering both front-end and back-end technologies.

EDUCATION

Bachelor's in Computer Science

Kerala Technological University

04/2015 – 04/2019
Trivandrum, India