

PUBUDU GUNASEKARA

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EDUCATION

Northeastern University, San Jose, CA Khoury College of Computer Sciences — M.S. Computer Science	Jan. 2026 – Present Expected: 2027
Conestoga College, Waterloo, Ontario, Canada Postgraduate Certificate in Mobile Solutions Development, GPA: 3.74/4.00	May 2022 – Dec. 2023
Victoria University, Melbourne, Australia Bachelor of Information Technology, GPA: 6.25/7.00	Mar. 2018 – Aug. 2021
National Institute of Business Management, Colombo, Sri Lanka Diploma in Software Engineering, GPA: 3.81/4.00	Oct. 2016 – Nov. 2017

TECHNICAL KNOWLEDGE

Languages: Java, Python, C#, ASP.NET, C++, C, JavaScript, Kotlin, HTML, CSS
Databases & APIs: SQL, MongoDB, Firebase, RESTful APIs, Microservices
Frameworks & Tools: React, React Native, Django, Node.js, Selenium WebDriver, Docker, Kubernetes, Jenkins, Git, Jira, CI/CD
Certifications: Microsoft Azure Fundamentals (AZ-900), IBM Full Stack Developer, Meta Android Developer, Python for Everybody (U. Michigan), People & Soft Skills (IBM), C/C++ Specialization (UC Santa Cruz)

WORK EXPERIENCE

Virtusa, Colombo, Sri Lanka <i>Associate Engineer – QA (Software Development Engineer in Test)</i>	June 2021 – Mar. 2022
<ul style="list-style-type: none">Deployed as SDET on a core British Telecommunications PLC project serving over 1 million+ users.Developed robust automation test scripts using Java, JavaScript, and Selenium WebDriver, increasing time savings by over 80% and reducing costs by over 30%.Led the QA sub-team, ensuring timely delivery of test plans, designs, and scripts while sharing product knowledge across the team.Conducted client demos that received positive feedback facilitating budget approvals; collaborated with BAs, Developers, PMs, and QAs to complete sprints ahead of deadlines.Conducted defect triages, participated in code reviews, and completed 4-month training in QA automation and Java to enhance industry knowledge.	

PROJECTS

Nationwide Car Dealership Review Platform, Full Stack Web App	Apr – May 2024
<ul style="list-style-type: none">Built full-stack platform using React, Django, Node.js, and MongoDB with secure user authentication and CRUD operations for reviews and branches across states.Configured CI/CD pipelines with Jenkins and GitHub Actions; containerized with Docker and deployed on IBM Code Engine with Kubernetes for high availability and fault tolerance.	
House Master, Android Application — Conestoga College Capstone	Sep – Dec 2023
<ul style="list-style-type: none">Led Android app development (Kotlin, Firebase) enabling users to browse services, book appointments, manage profiles, and process payments with an integrated rating system.Coordinated a multi-developer Agile team using Jira and Git; delivered complete sprint milestones on schedule with full test coverage and client demo sign-offs.	
Smart Farm, IoT Hybrid Mobile App — Victoria University	Mar – Sep 2021
<ul style="list-style-type: none">Team-led cross-platform (Android/iOS) smart farm app with React Native, Redux, Firebase, and IoT controllers for real-time livestock monitoring and farm management.Designed shift management, issue ticketing, and peer-to-peer emergency communication modules; nominated top-10 most innovative project at NSBM Green Exe v1.0 competition.	
Personal Multi-User Blog, MERN Stack	Jul – Dec 2020
<ul style="list-style-type: none">Engineered multi-user blogging platform with React, Next.js, MongoDB, Express, Node.js, and Redux featuring an admin approval workflow for collaborative content publishing.Implemented SEO optimization, a mobile phone directory, and a news section; applied Next.js server-side rendering for improved performance and search engine visibility.	
Maintenance Management System & Virtual Food Ordering System	May – Jul 2019
<ul style="list-style-type: none">Won 1st place at inaugural NSBM overnight code camp by building two web apps replacing manual systems at NSBM Green University — a maintenance ticket tracker and a faculty meal ordering portal.Both systems featured secure login, role-based admin dashboards, real-time status updates, and inventory/budget reporting; demonstrated full-stack web development under competition pressure.	

INTERESTS / ACTIVITIES

- Active LeetCode contributor solving algorithms and data structure challenges — leetcode.com/u/pubuduguna.
- Currently enrolled in Data Structures & Algorithms Specialization (UC San Diego) and Coding for Everyone: C/C++ Specialization (UC Santa Cruz).
- Published and maintained [Travelbotk.com](https://travelbotk.com), a WordPress travel blog featuring 25 articles on Sri Lankan tourism with an interactive geo-map and MonsterInsights analytics.