

KUMARATHASS PABILAN

Computer Science Undergraduate

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Summary

Third-year Computer Science undergraduate at UCSC seeking an internship, with hands-on full-stack development experience from academic and personal projects. Led a four-member team to build MediNex, an online pharmacy management system with multi-role access control, using PHP and MySQL. Currently conducting a literature review in machine learning in preparation for final-year research in the field. Curious about emerging technologies and eager to apply them to real-world products.

Education

B.Sc. (Hons) in Computer Science 2024 – Present | Expected: 2028

University of Colombo School of Computing (UCSC) | GPA: 3.75 / 4.00

Diploma in Software Engineering 2020

ESOFT Metro Campus | Java, Object-Oriented Programming, Databases

G.C.E. Advanced Level 2020 – 2022

Hindu College Colombo | Combined Maths, Physics, ICT | Result: 3A | Z-Score: 2.1155

Skills

- **Languages:** JavaScript, TypeScript, Python, Java, PHP, C, C++, SQL
- **Front-End:** React, Next.js, HTML5, CSS3, Tailwind CSS
- **Back-End & Databases:** Node.js, REST APIs, Webhooks, MySQL, Java Swing
- **Machine Learning:** SVMs, Ensemble Methods, CNNs, Backpropagation, Q-Learning, K-Means
- **Tools & Practices:** Git, GitHub, VS Code, Linux, LaTeX, OOP, Data Structures, Algorithms
- **Spoken Languages:** Tamil (Fluent), English (Fluent)

Projects

MediNex – Online Pharmacy Management System github.com/pabi9625/MediNex

Team Lead | 2nd-Year UCSC CS Project (4-Member Team)

- Led development of a full-stack e-pharmacy system on a custom MVC architecture in PHP and MySQL.
- Designed multi-role access control for Admin, Pharmacist, Sales Rep, and Customer roles.
- Built the Admin module: user management, batch inventory tracking with expiry alerts, and sales reports.

Tech Stack: PHP, MySQL, HTML5, CSS3, JavaScript

Planner – Personal Planning Web App with Telegram Reminders planner.pabilan.dev

Personal Project | Live Deployment

- Built and deployed a personal planner web application with Next.js, live in production at planner.pabilan.dev.
- Integrated the Telegram Bot API through a webhook so the app delivers reminder messages directly to Telegram.

Tech Stack: Next.js (React), JavaScript, Telegram Bot API, Webhooks

DeepSeek Toolkit – Chrome Extension for DeepSeek Chat github.com/pabi9625/deepseek-toolkit

Personal Project

- Built a Manifest V3 Chrome extension with language enforcement (43 languages), custom rules, and slash-code quick prompts.
- Added one-click chat export to Markdown, with all data stored locally via the Chrome Storage API.

Tech Stack: JavaScript, Chrome Extension Manifest V3, Chrome Storage API

Europe Bus – Bus Booking Desktop Application github.com/pabi9625/europe-bus-booking-system

Coursework Project | ESOFT Metro Campus | 2020

- Built a Java Swing desktop application for inter-city bus booking, backed by a five-table MySQL schema over JDBC.
- Implemented separate passenger and employee workflows: registration and login with form validation, route search, seat booking with live availability, and an audit table logging every route change.

Tech Stack: Java 8, Java Swing, MySQL, JDBC, Apache Ant

Asteroids – Arcade Game github.com/pabi9625/Asteroids

Personal Project

- Recreated the classic arcade game in Pygame with an OOP entity hierarchy, collision detection, and asteroid splitting.

Tech Stack: Python 3, Pygame

Certifications

- **Boot.dev (2026):** Learn to Code in Python; Learn Git; Learn Linux; Object Oriented Programming in Python; Functional Programming in Python; Build Asteroids using Python and Pygame
- **Google – Coursera (2023):** Foundations: Data, Data, Everywhere; Technical Support Fundamentals; Ask Questions to Make Data-Driven Decisions; Prepare Data for Exploration

References

Dr. R. N. Rajapakse – Senior Lecturer, UCSC | rnr@ucsc.cmb.ac.lk | +94 11 258 1245

Dr. P. V. K. G. Gunawardana – Senior Lecturer, UCSC | kgg@ucsc.cmb.ac.lk | +94 11 258 1245