Ashwin Kullanthaivel

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CAREER OBJECTIVE

Computer Science graduate with a strong foundation in programming, software development, and data-driven problem solving. Experienced in building practical applications, working with databases, and applying structured workflows to deliver reliable solutions. Certified in Microsoft, LinkedIn & GitHub with proven leadership experience organizing tech workshops and collaborating across teams. Actively seeking a full-time entry-level role where I can learn fast, contribute meaningfully, and grow as an CS engineer. **Available immediately**.

EDUCATION

Foundation Certificate in UX Design
K-Youth Development Program, TalentLabs   *Sept 2025 - Dec 2025*
Bachelor of Computer Science (Hons)
University Tunku Abdul Rahman   *Oct 2021 - June 2025*

EXPERIENCE

Data Analyst KYDP Trainee
Access Group   *Sept 2025 - Dec 2025*
- Reviewed reporting workflows, identifying risks and opportunities for automation applying Python and SQL
- Evaluated and benchmarked multiple Databricks ingestion strategies, selecting the most efficient approach to cut data refresh time **from ~2 weeks to a few hours** for Workday HR datasets.
- Created interactive dashboards facilitating data-driven decision-making across cross-functional teams.

Software Developer Intern
Bitcode Technology   *Oct 2024 - Jan 2025*
- Worked across frontend and backend components using HTML, CSS, JavaScript, and Laravel (MVC framework), gaining experience in application architecture and data flow.
- Implemented and tested RESTful APIs used for real-time data interaction, supporting client-side applications.
- Performed application testing and validation to ensure feature stability and correctness, & prepared technical documentation, including feature descriptions, API usage notes to support development and handover.
- Redesigned admin dashboard interfaces leading to **usability improvements for around 35% of users**.

PROJECTS

Sign Detection System for Blind Students (FYP) [Github Link]   *Aug 2024*
- Developed an OCR + TTS integrated system to assist blind students with real-time room identification.
- Achieved 95% detection accuracy for signage and 76% for text extraction under challenging lighting conditions.
- Optimized a YOLO computer vision pipeline using OpenCV for object recognition & EasyOCR for text synthesis.

E-Commerce Product Recommendation (React) [Github Link]   *June 2025*
- Developed a dynamic recommendation engine to suggest similar and recommended products to user based on category and price when items are added to the cart improving user discoverability.
- Applied rule-based filtering, conditional rendering & state management with Redux to enhance user experience.

Movie Review Webpage (PHP) [Github Link]   *Sept 2024*
- Developed an MVC-based movie review platform using PHP and SQL with multi-role support (admin, users).
- Integrated secure authentication, RBAC and optimized backend data flow with CRUD operations.

Math Fun App (Java) [Github Link]   *March 2025*
- Developed an educational app for kids and mastered core mobile development skills including UI design, activity navigation, user feedback through sound and visuals, and logic-based user interaction using Android Studio.

CERTIFICATIONS

Career Essentials in Software Development (Microsoft)   *[certificate-link]*
UX Design Fundamentals (UX Design Institute)   *[certificate-link]*
Career Essentials in GitHub (GitHub)   *[certificate-link]*
IT Leadership Professional Certificate (ServiceNow*)*   *[certificate-link]*
Professional Soft Skills Learning Pathway (LinkedIn)   *[certificate-link]*
AWS Cloud Practitioner Essentials (AWS)   *In Progress*

AWARDS

- **2nd Runner Up**, AI Tinkerers Kuala Lumpur x ElevenLabs Hackathon – The Access Group
- **Top 10 Finalist**, UTAR Final Year Project (FYP) Competition – University Tunku Abdul Rahman
- Participant, Google for Startups – *Prompt to Prototype* Program (2025)

LEADERSHIP & INVOLVEMENT

Vice President – Computer Science Society
- Organized & led an AI/ML workshop for **150+ participants**, managing volunteers, ensuring smooth execution.

Chairperson – Health Lives Matter Campaign
- **Secured RM3,000** in sponsorships, leading a 13-member team to deliver a successful campaign.

ADDITIONAL INFORMATION

Languages: PHP, Python, C++, Java, HTML, CSS, JavaScript
Technical Skills: Visual Studio Code, Github, Figma, Laravel, OpenCV, Raspberry PI, Android Studio, React, Power BI, Tableau, SQL, DAX, Google Analytics, Databricks
Soft Skills: Leadership, Problem Solving, Team Player, Adaptability
Languages: English, Tamil, Bahasa Melayu
Interests: Software, App Dev, AI, Data

REFERENCE

Prof Dr. Leung Kar Hang (FYP Supervisor)   leungkh@utar.edu.my
Stefan Brown (Access Group Manager)   Stefan.Brown@theaccessgroup.com