Pallab Paul

https://zeuscodes.github.io/Portfolio/

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Career Profile

I am a Computer Science graduate with experience in web and application development, secure coding, and scalable solution design. Seeking an entry-level Software Developer role or internship to apply technical expertise and contribute to innovative digital platforms. My career goal is to grow as a full-stack developer specialising in web/mobile applications, cloud technologies, and AI solutions for large-scale organisations.

Technical Skills

- **Programming Language**: Java, JavaScript, Python, C#, C++, Ruby, PHP
- **Software Development**: ReactJS, Vue.js, Flutter, Android Studio, Node.js
- **Databases**: MySQL, MongoDB, Firebase, DynamoDB
- **Cloud**: AWS
- **Other Skills**: Agile, Git, Jira, UI Design, OOPs Principles, Data Structures, REST, Database Design, UML Diagrams, Sequence Diagrams, Software Testing, Mutant Generation, IOT, Basic AI Agents

Certifications
- Digital Industry Projects, Practera, Jan 2022
- Full Stack Web Development Bootcamp, Udemy, June 2021
- Full Stack Development Internship, Edureka, July 2025

Experience

Crown, Melbourne   **Sept 2022 – Present**

Office Coordinator   **Dec 2023 – Present**
- Streamlined communication and coordination between front-of-house and back-of-house, ensuring smooth daily operations
- Designed and automated workflows, streamlining team operations, reducing manual effort, and eliminating redundant tasks to significantly improve overall efficiency.
- Documented daily tasks, reports, and team handovers using Microsoft Office Suite, ensuring clarity, accuracy, and continuity across shifts.

Supervisor   **Sept 2022 – Dec 2023**
- Supervised and motivated a team of 10–15 staff, driving operational excellence, maintaining high productivity, and ensuring consistent delivery of quality service.
- Coordinated stock management and inventory control, optimising resource allocation and supporting overall store efficiency and operational success.
- Enabled timely room preparation through effective workforce management, improving check-in efficiency and elevating overall guest satisfaction.

Jr. Web Developer   **Dec 2021 – Dec 2022**
Swinburne Leadership Hub, Melbourne
- Analyse the current club website to identify areas for improvement in design, functionality, and user experience

- Optimise website performance by 20%, including page load times, by utilising techniques such as code optimisation and image compression
- Use Next.js and Tailwind to engineer new features and functionalities for the club's website.
- Using git for version control and agile development methodologies for project management, to adhere to project schedules and requirements.

Customer Service Representative   **Mar 2022 – Aug 2022**
Sidekicker, Melbourne
- Provided exceptional customer service, utilising interpersonal skills to handle queries and utilising POS systems
- Co-ordinated stock management and inventory control, contributing to the store's operational success.
- Influenced operational workflows, maintaining cleanliness and organisation in high-traffic areas.

Internships

Carikture – Web Developer Intern   **Nov 2021 – Dec 2021**
- Engage in professional communication and meetings with more than 4 clients to gather their requirements and objectives.
- Communicate technical concepts and proposals clearly and understandably to non-technical clients.
- Implement frontend technologies, such as HTML, CSS, JavaScript, and PHP to deliver innovative solutions that align with their business needs.
- Strong communication and interpersonal skills to effectively engage and collaborate with clients. Ability to understand and interpret client requirements, translating

Tidbeat- React JS Intern   **Aug 2021 – Nov 2021**
- Implement responsive design principles using React.js and Sass to ensure a seamless user experience across devices and screens.
- Enhance the overall performance and efficiency of the web application by 40% through code refactoring and optimisation techniques.
- Implement robust user authentication mechanisms using Auth0 to secure the web application and protect user data.
- Excellent collaboration and communication skills to work effectively with cross-functional teams

Projects

Lida- Mobile Application for Composting Prototype
- Collaborated with a startup partner to integrate the LIDA composting prototype with a mobile app, enabling remote control of composting conditions.
- Enhanced organic waste decomposition by dynamically adjusting carbon-nitrogen levels, reducing composting time to 60 days.
- Implemented automation, allowing autonomous adjustment of composting conditions based on sensor data.
- Technologies: Flutter, AWS Cloud, AWS IOT

Foodify – Mobile Application for Surplus Food Management
- Utilised mobile devices to connect food donors with those in need, reducing food waste and addressing hunger in communities.
- Implemented authenticated user functionality for secure post creation, improving data integrity and app performance by 30%.

- Explored Google Maps API integration to enhance user experience with visual markers indicating food distribution points.
- Technologies: Android Studio, Kotlin, Firebase, Google Maps API

SchoolAR – AR-Based Distant Learning Application
- Leveraged echo3D to integrate augmented objects, enabling students to engage with virtual elements and perform experiments remotely.
- Facilitated distance learning for 800+ students during the COVID-19 lockdown, including underprivileged children.
- Implemented cutting-edge facial recognition using TensorFlow and Keras to ensure class security.
- Technologies: Unity, Echo3D, C#, Google Maps API

SecurePark – Remote Parking Locator
- Integrated IoT sensors for real-time parking occupancy data, enhancing user access to accurate spot availability.
- Developed secure communication protocols to safeguard parking data integrity between IoT devices and the website backend.
- Expanded infrastructure to include smoke detectors for vehicle safety, enabling prompt reporting to authorities in case of harmful smoke detection.
- Technologies: Arduino, Python, MySQL, and MQTT communications

Education

Bachelor of Computer Science   **Aug 2021 – July 2024**

Swinburne University of Technology, Melbourne
Major: Software Development
Minor: Finance
Relevant Modules: Object-Oriented Programming, Data Structures, Mobile Development, Cloud Computing, AI, IoT, IT Project Management, User-Centric Design, Database Management, Active Directory, Network Administration

Honour Awards

Swinburne International Excellence Scholarship   **Aug 2021 – July 2024**

Swinburne University of Technology, Melbourne
Swinburne International Excellence Scholarships are a range of merit-based scholarships offered to high-achieving international students for undergraduate and postgraduate degrees.

Letter of Commendation   **June 2022**

Swinburne University of Technology, Melbourne
A Letter of Commendation is a recognition award given by the Vice Chancellor to undergraduate students with a Grade Point Average at the High Distinction level.

Reference

Available on Request