

AYAT IRFAN

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Creative and results-driven Software Developer with **2+ years** of experience designing and developing user-focused web applications for **multiple startups** at the **National Incubation Center**. Strong background in **JavaScript, React.js, Node.js, Firebase**, and **Bubble.io** with a solid understanding of **API development, OOP principles, Azure, AWS cloud platform, WCAG 2.2**, and modern UI/UX tools such as **Figma**. Strong adaptability and knowledge of no-code platforms like Bubble.io.

Experienced in ensuring application performance, responsiveness, and code quality across both client-side and backend systems. Adept to problem-solving, debugging, and team player, and passionate about building innovative digital solutions in fast-based startup environments.

PROJECTS

DEPOT PARCEL SYSTEM (OOP, MVC, DESIGN PATTERNS)

- Designed and implemented a parcel collection system simulating a real-world depot workflow.
- Developed core classes including Parcel Customer QueueOfCustomers, ParcelMap, Worker and Manager ensuring appropriate use of **OOP** principles (compositions, associations).
- Applied three-tier architecture principles with clear separation of concerns between data, business, logic, and presentation layers. Implemented model view control (MVC) to keep UI **responsive** and business logic isolated.
- Applied the Singleton Pattern in a Log class to capture system events, later written to a text file for auditing.
- Build an interactive GUI using Java components (buttons, panels, frames) applying consistent **color and font design** principles.
- Managed development iteratively using Git, with staged commits demonstrating progressive implementation (e.g, class structure, console I/O, GUI updates)

FUNDUS PHOTOGRAPHY (TEAM PLAYER, OOP, PROBLEM SOLVING)

- Led a team** to develop and prototype a machine learning model for diabetic retinopathy detection and delivered a functional MVP under real-world constraints.
- Developed and presented the initial wireframes and prototype in **Figma**, ensuring clarity in **design and development**.
- Coordinated **team sprints** under agile development, ensuring **cross-functional collaboration** and identifying **bottlenecks**.

MUSCRIPT (JAVASCRIPT, ASYNCSTORAGE, API INTEGRATION)

- Developed a music review and journaling app in that categorized every user-published review by artist, album, and song.
- Implemented real-time synchronization for user-generated data and seamless offline storage handling.
- Applied **API Integrations** with Firebase Authentication and Database.
- Delivered clean UI layouts and intuitive design to enhance user engagement.

EXPERIENCE

NATIONAL INCUBATION CENTER FOR AEROSPACE TECHNOLOGIES (NICAT) – JUNIOR SOFTWARE ENGINEER (MAY 2024 – CURRENT)

INTELLISLOT (JAVASCRIPT, REACT.JS, NODE.JS, EXPRESS, SOCKET.IO, API INTEGRATION, FIREBASE, FIGMA)

- Designed and implemented a QR-based parking management **web application** to optimize urban parking systems, improving performance and **responsiveness** through **optimized API calls and database queries**.
- Delivered a fully functional MVP using modern **JavaScript** frameworks, ensuring scalability and a modular codebase applying **OOP** and asynchronous patterns.
- Troubleshoot real-time synchronization issues using Firebase Realtime Database**, proactively **resolving bottlenecks and bugs**.
- Maintained **strong collaboration** within an agile team to **meet startup-style development deadlines** and ensured design consistency using **Figma mockups, UI plans, and SDDs**.

KOVAKARA (JAVASCRIPT, REACT.JS, API INTEGRATION, FIREBASE, FIGMA)

- Designed and delivered a **corporate web platform**, implementing real-time updates and data synchronization through **Firebase APIs**.
- Designed** sample **web pages**, including **color palettes and font schemes** aligning with brand identity.
- Prepared and **presented design plans and app structure** to management for review and approval.
- Ensured high performance, reliability, and **responsiveness**, optimizing components and **improved code performance** through targeted refactoring.

SOFTWARE AUDITS (BOTTLENECKS AND BUGS IDENTIFICATION, DEVISE SOLUTIONS, QUALITY CODE)

- Conducted software performance audits to **identify inefficiencies in existing systems**.
- Provided technical support for web and mobile app issues, including **bug tracking, backend fixes, and front-end responsiveness optimization**.
- Helped **maintain code quality** and organization by **suggesting improvements** in modularization and automation.

TECHNICAL SKILLS

Language & Frameworks: **JavaScript, React.js**, Node.js, Express.js, React Native, Java, SQL, Python, HTML, CSS

Tools & Databases: **Bubble.io**, Firebase, Figma, Git, Async Storage, Socket. io. Tailwind CSS, Power BI, Supabase

Core Areas: **Application Design & Delivery, API Development & Integration, Object-Oriented Programming (OOP), No-Code / Low-Code Platforms (Bubble.io), Debugging & Performance Optimization, Code Quality, UI/UX Design, Color & Font Planning, Azure & AWS Cloud Familiarity, Startup Environment Collaboration, Agile Development & Technical Support.**

EDUCATION

BSC HONS. COMPUTER SCIENCE (**FIRST CLASS HONORS, 1:1**)

THE UNIVERSITY OF HERTFORDSHIRE, UNITED KINGDOM (**9 DISTINCTIONS**)