Arul Valan Anto S
Senior Software Engineer in India, He/his
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About

Hey there, I'm Arul Valan Anto, a Full Stack(MERN Stack) developer with over 4
years of coding.

Throughout my journey, I've dipped my toes into various fields, including AI,
marketing, and environment. From environmental to AI, I've donned many hats
and solved countless puzzles, each experience shaping me into the versatile
developer I am today.

My Bento Space

Work Experience

2022 — Now	Senior Software Engineer at Augment LLC Coimbatore, TN, India - Remote

- Participated in sprint planning sessions, collaborated with
  UI/UX designers to refine design flows, and conducted
  code reviews to ensure quality.

- Conducted code reviews to maintain code quality and
  ensure best practices are followed.

- Involved in various projects, addressing a range of issues
  such as bugs and performance-related challenges while
  also assisting colleagues who encountered difficulties.

- Discussed with architects or team leads to determine the
  appropriate packages and technologies to use for specific
  tasks.

- Developed a proof of concept(POC), received approval
  from clients, and proceeded to implement the POC for
  actual use.

2020 — 2022	Junior Software Developer at Coding Space India Chennai, TN, India - Remote

- Provided training and guidance to interns and assigned
  tasks within the context of actual projects.

- Chosen a suitable technology stack that aligned with the
  requirements of individual projects.

- Translated wireframes into UI design using front-end
  technologies, wrote business logic to support
  functionality using back-end technologies, and eventually
  deployed it on the production server.

2018 — 2018	Intern at LTI - Larsen & Toubro Infotech Chennai, TN, India

I was involved in exploring the process and workflow in
the SAP domain. I was also trained on how to conduct a
conference call. I also visited the L'Oréal ODC and learned
about how clients and employees communicate with each
other.

Projects

2024   Auggy - IntraBot at Augment
                         Auggy is an intrabot designed to enhance workplace
                         productivity by assisting employees and employers with
                         tasks such as tracking users, retrieving employee
                         information, generating approval emails, and managing
                         time tracking and etc.

                         Achievements:

                         • Developed Auggy which help employees and employers
                           with various tasks and operations.

                         • Implemented Retrieval Augmented Generation (RAG) with
                           VectorDB integration, enabling employees to query and
                           retrieve accurate information about company policies and
                           details from a comprehensive knowledge base.

                         • Implemented a robust role-based access control system,
                           ensuring actions and information are restricted based on
                           user roles (e.g., employee, HR).

                         • Integrated with multiple applications, including time
                           tracking (Paddyfield), GretyHR, Google Calendar, Gmail,
                           Google Drive, and Slack, enhancing productivity and
                           workflow.

                         • Implemented a system to recommend training programs
                           and courses, supporting employee growth and
                           development.

                         • Simplified the submission, approval, and reimbursement
                           process for expenses, making financial operations more
                           efficient.

2023   Raven - Unified System (ERP-CRM integration) at Lee
                Enterprises
                The Raven application integrates ERP and CRM
                functionalities into a unified system, managing core
                business processes such as inventory, finance, sales, and
                customer interactions. It enhances operational efficiency
                by making data flow and improving inter-departmental
                communication, while also improving customer
                satisfaction and business performance through real-time
                data insights and automated workflows.

                Achievements:

                - Successfully integrated subscriber management, financial
                  management, HRM(Human Resource Management),
                  SCM(Supply Chain Management), CRM functionalities into
                  application.

                - Enabled secure and seamless access through Windows
                  Authentication and Single Sign-On (AWS Cognito),
                  ensuring efficient user authentication and data access
                  controls.

                - Enhanced customer service operations through
                  centralized subscriber management, reducing
                  redundancy and improving response times and
                  automated financial transactions and reporting
                  processes, leading to quicker decision-making and
                  financial visibility.

                - Implemented Role Based Access Control (RBAC) to
                  enforce precise user permissions, dynamically allowing or
                  restricting actions and features based on user roles.
                  Enhanced UI flexibility with RBAC-driven capabilities to
                  display relevant features and actions dynamically
                  according to permissions.

                - Integrated Chargebee payment portal seamlessly into
                  business processes, enhancing financial management
                  capabilities.

                - Designed and implemented a logging mechanism for the
                  Raven application, significantly enhancing tracking and
                  debugging capabilities.

                - Led the development of Raven, integrating ERP and CRM
                  functionalities to enhance subscriber management,
                  financial transactions, and customer service operations.

2023   Vidable AI at Augment
                       Vidable makes video libraries better for organizations by
                       improving search, providing useful insights, saving time
                       and money, and ensuring quality standards. This helps
                       users maximize the value of their videos and achieve their
                       goals faster.

                       Achievements:

- Integrated Vidable with over 10 third-party applications,
  facilitating seamless video uploads for insights.

- Developed and deployed an AI assistant which is
  providing users with specific video-related queries and
  instant responses.

- Engineered a feature that delivers comprehensive insights
  for video, including brand analysis, sentiment analysis,
  topics, labels, people, and content summarization.

2023   Paddy Field - Time Tracking App at Augment
                       Paddy Field is a time tracking application designed to
                       simplify how teams manage their workday. It offers
                       seamless integration with third-party reporting tools like
                       Google and Parallax, enabling comprehensive reporting
                       and analytics. Additionally, It supports cost tracking and
                       budget planning, providing teams with essential financial
                       insights to optimize project planning and resource
                       allocation effectively.

                       Achievements:

- Successfully implemented seamless integration with
  third-party reporting tools like Google and Parallax,
  enhancing reporting capabilities and data analysis for
  users.

- Implemented cost tracking and budget planning features
  that provide teams with essential financial insights for
  effective project planning, resource allocation, and
  forecasting future expenses.

- Designed and developed a dashboard in Paddyfield that
  enables management to visualize and track project costs,
  budgets, and invoicing statuses. Key features include
  monitoring unbilled invoices, total hours logged, and
  remaining budget, enhancing financial oversight and
  decision-making capabilities.

2023   **Contezo at Augment**
A platform for creating promotions, games, contests, sweepstakes, loyalty programs, coupons, and codes via the Internet, social media, and mobile devices.

Achievements:

- Implemented a ranking algorithm within the platform, prioritizing business placements based on sponsorship contributions and user-entered ballot submission times.

- Developed and integrated a real-time analytics dashboard, providing stakeholders with actionable insights into campaign performance and user engagement.

2022   **ACAT - Acuity Cleaning Assessment Tool Software at Augment**
ACAT is a tool designed to assist custodial departments in managing various aspects of their operations. It offers features such as operational support, quality control, resource management, and report generation.

Achievements:

- Developed a flexible and modular system to allow different facilities (such as hospitals, offices, and educational institutions) to customize the ACAT software according to their specific needs.

- Designed and implemented complex scheduling algorithms to optimize labor distribution and ensure equitable workloads. Created efficient backend processes to handle both daily and project-based work requirements, ensuring timely task assignment and completion.

- Developed a user-friendly dashboard that provides comprehensive performance metrics and visualizations. Incorporated key performance indicators (KPIs) such as task completion rates, average task completion time, inspection pass rates, and efficiency metrics.

- Developed role-based access control to cater to different user roles (e.g., facility managers, custodians, inspectors), ensuring secure and appropriate access to features.

- Created dynamic report generation features for detailed insights, summaries, and automated reports on tasks, inspections, and resource usage. Developed customizable templates for user-specific reports, exportable in multiple formats for easy sharing and compliance.

2022

SeedLinked - Compare and Buy Seeds at Augment
SeedLinked is an organic plant seed platform that would help growers/breeders collect data and eventually buy seeds.

Achievements:

- Developed a web scraping system which periodically collects and updates seed data from various websites.

- Enhanced user experience by implementing on-demand scraping and real-time data validation to ensure users receive the latest availability information when purchasing seeds.

2022

AirDeck at Augment
AirDeck is a platform that lets you add voice or video to your presentations, track engagement with unique links, record and upload videos, embed existing videos, and view comprehensive analytics, all in one place.

Achievements:

- Implemented the OAuth 2.0 authorization protocol using Auth0, which enabled third-party applications such as Outlook plugin to securely access resources on behalf of their users.

- Codeveloped an Outlook plugin, which simplified the process of sharing decks in AirDeck from seven steps to just two, resulting in increased user engagement.

- Developed video and audio recording features using WebRTC and Ziggeo, enabling users to add multimedia commentary to slides.

- Implemented real-time collaboration features, integrating user activity tracking, slide locking, and user presence indicators to allow multiple users to work on the same deck simultaneously.

2022

LandGenius at Augment
LandGenius is a remote sensing application provides quick and comprehensive details about land cover types, wetlands, streams, ponds, flood zones, and endangered species in your project area, which benefits real estate agents, land buyers, developers, and city planners.

Achievements:

- Successfully integrated Mapbox with React to create an interactive mapping interface, enhancing user experience for real estate agents, land buyers, developers, and city planners.

- Utilized TurfJS to enable precise area calculations based on user-drawn polygons, ensuring accurate land assessment.

- Implemented a feature allowing users to upload shapefiles, automatically extracting and displaying polygons on the Mapbox map for seamless data visualization.

- Developed a Django-based backend that processes spatial data using GDAL, ensuring efficient and accurate retrieval of geographic information.

- Facilitated the generation and download of detailed reports for submission to the US government, including comprehensive data on land cover types, wetlands, streams, ponds, flood zones, and endangered specie.

- Integrated Stripe for secure payment processing.

2021

JoJoPay at CodingSpaceIndia
JoJoPay is your all-in-one payment solution for seamless financial transactions. Additionally, you can easily book flight, bus, and local bus tickets.

Achievements:

- Developed and integrated a seamless "Split-Share" feature within JoJoPay, enabling users to effortlessly split bills among friends when dining out by automatically dividing the total bill among selected friends, allowing quick friend addition, providing flexible payment options, implementing automatic reminder notifications, and delivering a user-friendly interface for a smooth and intuitive user experience.

- Successfully bootstrapped the entire JoJoPay application with all necessary setup and configuration, laying a solid foundation for further development and deployment.

Side Projects

2024   SynthUp
                               SynthUp turns long videos into short and easy-to-listen
                               summaries. Get to the point quickly and enjoy your
                               content effortlessly, wherever you are.

2024   The Crawler Man
                               The Crawler Man offers a comprehensive collection of
                               pre-defined APIs explicitly designed for scraping. With
                               The Crawler Man, you can easily extract data from various
                               websites without the hassle.

2023   FutureReads
                               A Chrome browser extension that allows you to save
                               articles to read later and sends you pop-up notifications
                               as reminders when you come across related content while
                               browsing the internet.

2023   Highlight
                               Highlight is the revolutionary web application that
                               empowers developers, bloggers, and designers to create
                               visually stunning, attention-grabbing code snippets like
                               never before!

2023   Framewise
                               FrameWise is your gateway to a world of limitless
                               possibilities, where videos become a wellspring of
                               insights and inspiration. Seamlessly upload your videos
                               and embark on a transformative journey that unlocks the
                               hidden potential within each frame

2022   Scaffolder CLI
                               A scaffold generator that can assist you in creating a basic
                               structure for your upcoming React and Node application.
                               It can automatically generate the files and folders
                               required to start a project and includes boilerplate code
                               you can build upon.

2022   Dressed To Kill
                               A Dummy Online E-commerce platform

2021   Annals
                               Comprehensive solution for all your digital storage needs.
                               With Annals, you can store and organize your journals, to-
                               do lists, ideas, and passwords in one convenient location.

Writing

2023   5 Advanced NodeJS Techniques with ExpressJS, Medium

2023	Mastering SOLID Principles Like the Back of Your Hand in Just 8 Minutes!, HackerNoon
	The blog gained significant traction, reaching the top spot on the HackerRank website during the week.

Certifications

2022 — 2025	AWS Certified Cloud Practitioner from AWS

2020	The Ultimate Dark Web, Anonymity, Privacy & Security Course from ZSecurity

Education

2015 — 2019	Bachelor of Engineering at Loyola ICAM College of Engineering and Technology (LICET)
	Chennai, TN, India

2014 — 2015	HSC at Carmel Higher Secondary School
	Nagercoil, TN, India

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