ABDULLAH ABDUL KHADIR

SOFTWARE DEVELOPER

CONTACT

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EDUCATION

[Phd - Computer Science]
Chennai Mathematical Institute,
2014 - 2018

Research Assistant
TU, Darmstadt, Germany
2012 - 2014

M2 - MPRI
ENS Cachan,Paris, France
2010 - 2011

MSc. Computer Science
Chennai Mathematical Institute,
2008 - 2010

B.E. Computer Science
Anna University
(Crescent Engineering College)
2004-2008

PROFILE

  I have over five years of experience building enterprise software using cutting edge technologies at a variety of startups. In the past, I was involved in automating accounting workflows at Lockstep, which was acquired by the Sage Group PLC. Looking forward to new challenges to build and scale products / businesses.

PROFESSIONAL EXPERIENCE

Freelancer / Contractor/ Developer

upwork   **TURING**

Aug 2023 -

  As a freelancer, I have had the opportunity to work with a wide range of people as well as technologies, building robust solutions in various domains starting with discussing the varied requirements. I have been involved in developing, deploying web applications, troubleshooting existing solutions or implementations, providing expert advice as well as consulting on various domains of expertise in computer science.

- Build a ticketing management system in PHP (2 people)
- Build a Flask application for a Hotel Supplier (3 people)
- Building MVP using Ruby on Rails, Python Flask framework.
- Data Analysis and Visualization with matplotlib, pandas.
- Database design, implementation, troubleshooting existing solutions in PostgreSQL, MySQL and even MS SQL Server as per the requirements.
- Troubleshooting Bash scripts, review implementation
- Working with Project Network Diagrams.
- Converting CSS Styling to Tailwind CSS.
- Develop solutions with Google Sheets API.
- Enhance AI solutions by providing expert advice.
- Utilising ChatGPT to enhance provided solutions.

CERTIFICATIONS

https://abdullah85.github.io/images/certificates/current.html

PROJECT - EIGHT PUZZLE

Ongoing Rails App

Github Repository

https://github.com/abdullah85/micro-rails-the-eight-puzzle

Kanban board

https://github.com/users/abdullah85/projects/11

EXPERTISE

Problem Solving

Analysis

Algorithms

Programming

Debugging

Troubleshooting

System Design

Product Engineer/ Sage

Feb 2022 - Jul 2023

At the Sage Group PLC, I was part of the team that built **Lockstep Inbox**, (now **Sage Network**) a **Ruby on Rails** application for automating accounting workflows.

- Forward to AP Automation implementation - integrated Sage AI, third party AP & AR solutions (like bill.com) with Lockstep Inbox.
- Integrated **Stripe**, **Quickbooks**, **Sage Intacct**.
- Integrated Gmail and Outlook Inboxes with the application.
- Create REST API endpoints, test with **Postman**
- Use Sidekiq to process mails within the application.
- Created rake tasks for various transformations.
- Generate branded mail content with ERB.
- Used JBuilder to generate JSON responses.
- Used partials for structuring responses.
- Built features with internal Swagger API.
- Rapid development with **Appsmith**, low code.
- Built features for Contacts, Documents.
- Writing unit test cases with **RSpec**.
- 100% test coverage for features implemented.
- Top 1% for debugging and troubleshooting.
- Root Cause Analysis of bugs, explanations
- Document the solutions obtained (Notion)
- Explain obtained solutions to other developers
- Highly appreciated for concise explanation and solutions for fixing issues that plagued the team for some time (one long standing issue involved jsonb in PostgreSQL)
- Crisp, technical communication was highly appreciated.
- Participated in drills following an Agile approach.
- Presenting demos of features built and bugs fixed.
- Involved in planning, designing features.
- Worked closely with QA, improving quality of deliverables.
- End to end testing using mail servers (such as mail.com)
- Thorough, detailed explanation of issues observed above.
- Detailed, thorough steps for better end to end testing.
- Attending standups, following a two-week cycle.
- Collaborate with the Front End team for building features.
- Obtain information from Design Team for development
- Used Figma to understand the designs created.
- Remote collaboration - U.S., U.K colleagues.
- Attended Meet-ups in Bangalore to discuss and collaborate.

Senior Software Engineer/ mediavak

Jul 2021 - Jan 2022

In this role, I had the opportunity to build a minimal viable product (MVP) from design to implementation. The application was built using python's Flask framework with PostgreSQL as the database layer. The work involved the following,

- Requirements Analysis - gather and document.
- High Level Design - PlanetUML, GitHub.
- Documentation - markdown, component diagrams.
- Design, implement REST API with flask.
- Built backend with FLask, consuming AWS API.
- Built frontend with VueJS, Vue CLI, HTML/CSS.
- Used Javascript libraries like D3.js
- Used Github Hooks for automated deployment
- DevOps - AWS CI/CD CodePipeline, Amazon EC2

R&D Engineer/ HAL

Feb 2019 - Jun 2021

At HalSimplify Solutions, as an R&D engineer my role was to understand novel requirements by clients and research the market for cutting edge solutions. Then, I had to design and implement the solutions in collaboration with other team members. Listing some of the details below

- Technical Stack used
  - PHP Laravel Framework
  - MySQL database backend
  - jQuery widgets - javascript frontend.
- Coupon Management Module
  - To maintain footfall after festival
  - Coupons, Vouchers with time constraints
  - Absolute as well as percentage discounts.
  - Backend - configure program, track actuals.
  - Frontend - enable access at checkout
- Inventory Management Module
  - New features to manage, track inventory.
  - FIFO, LIFO, Moving Average valuations
  - Migrated from LIFO to Moving Average.

- ○ Implement a custom formula for valuation.
- ○ Documentation, testing and QA
- Quality Check Module
  - ○ Built for a FMCG client (based in Taif)
  - ○ Check produce for quality, freshness etc.
  - ○ Involved managing FMCG goods
  - ○ Maintained generic nature for reuse
  - ○ Redesign and enhance existing modules
- Project Management Module
  - ○ Ensured intensive internal use
  - ○ Replaced asana, internal project management
  - ○ Better reporting for tracking projects.
  - ○ Enabled visibility to end customers
  - ○ Usability was critical for success.
- Timesheet Module
  - ○ Time Tracking for Sales Invoicing
  - ○ Connect with Project Management module
  - ○ Enable Billing against Project tasks
- Customization Module
  - ○ Make core modules customizable
  - ○ Enable self service during implementation
  - ○ Dependency on engineers was reduced.
- Warranty and Repair Management Module
  - ○ For repairing watches for instance
- Bank Import Module
  - ○ Automatic import of bank statement
  - ○ Synchronise ERP accounts with bank details.
  - ○ Match ERP components with Bank
- Financial Statement Reporting
  - ○ Understand the various financial statements
  - ○ Balance Sheet, Profit and Loss, Cash Flow
  - ○ Evaluate needs of clients, management
  - ○ Created Cash flow forecasting reports
  - ○ Custom reports monitoring financial Health