

6 Low pan based smart home

Abstract

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Keywords: Home Automation, 6 LOW PAN

Article Text

cv_md_rezoanul_alam.docx

Md. Rezoanul Alam

Full Stack Developer

Dhaka, Bangladesh | +8801881169844

alamrezoanul@fluxit.tech | alamrezoanul@gmail.com

LinkedIn: <https://www.linkedin.com/in/alamrezoanul> | GitHub:

<https://github.com/alamrezoanul>

Professional Summary

Visionary Senior Software Engineer, Technical Architect, and Founder with 21+ years of hands-on experience spanning full stack application development, scalable SaaS and eCommerce architecture, and international team leadership. Proven expertise in Node.js, TypeScript, Python, Shopify (custom themes, apps, integrations), iOS, React Native, and C#. Successfully delivered 30+ large-scale projects, led cross-functional teams, and driven cloud adoption for clients from startups to Fortune 500 companies. Recognized for innovative problem solving, building high-performing teams, mentoring engineers, and delivering results under tight deadlines. Expert in modern DevOps, automation, API design, and driving digital transformation across industries.

Core Technologies & Competencies

Cloud Architecture | Shopify App & Theme Development | Python Automation | API Strategy | eCommerce Solutions | AWS Serverless | React & React Native | Cross-Platform Mobile | CI/CD & DevOps | Team Leadership | Data Engineering

Front End: CSS3, Bootstrap, HTML5, JavaScript, React.js, Shopify (Liquid, Polaris), Shopify App Development

Back End: Node.js, TypeScript, Python, .NET CORE, Express, PHP, C#, JavaScript, AWS

Lambda, GraphQL, AWS AppSync, Shopify APIs

eCommerce: Shopify Storefront & Admin APIs, Shopify App Development, Payment Gateway Integration, Custom Theme & App Solutions

Data Stores: Amazon DynamoDB, MySQL, Oracle, PostgreSQL, MongoDB, SQL Server

Web Servers: AWS SAM, Serverless, Apache Tomcat, Apache HTTP Server, Nginx,

Microsoft IIS

Operating Systems: Linux (Red Hat, Ubuntu), MacOS, Windows 10, Windows Server

Professional Experience

Founder, CEO & Chief Software Architect | FLUX IT | Dhaka, Bangladesh

2019 – Present

FLUX IT is a boutique consultancy specializing in high-scale SaaS, eCommerce, and custom integrations for global clients.

- Built and led a 20-member cross-functional team, delivering over 30 major projects in eCommerce, healthcare, and finance.
- Designed scalable solutions with Node.js, Python, Shopify, TypeScript, AWS, GraphQL, and React Native.
- Developed 12+ custom Shopify apps (public/private), handling automation, checkout flows, fulfillment, and analytics.
- Automated reporting/data migration in Python, saving 100+ hours/month.
- Mentored engineers and established company-wide technical best practices.
- Introduced CI/CD and DevOps, increasing deployment efficiency and system stability.

Key Projects:

- Shopify Automation Suite: Full automation for Shopify merchants using Python ETL, RESTful APIs, and AWS Lambda.
- ReqFast: Re-architected AWS stack, reducing resource usage by 97%.
- Biovica: Led cloud diagnostic platform using AWS Serverless and Node.js.
- More projects in healthcare, eCommerce, and workflow automation.

Lead Software Developer | PwC | Paris, France

2017 – Present

PwC is a global leader in management consulting.

- Designed/implemented agile, test-driven applications for international audit/compliance clients.
- Collaborated with business/QA, created technical docs, and led redesigns for major products.

- Used Node.js, MongoDB, Nginx, Python (automation/scripting).

Subject Matter Expert | Infosapex Limited | Dhaka, Bangladesh

2016 – 2017

- Led mobile/web solutions, built and led a 5-person engineering team.
- Delivered projects in iOS (Objective-C, Swift), React Native.

VP of Engineering | Parentify (Spark Labs) | New York City, USA

2014 – 2016

- Delivered scalable service marketplace platforms for parents/professionals.
- Managed teams, schedules, and development using Node.js and MySQL.

Sr. Developer | Shave Inc. | Long Island City, USA

2013 – 2014

- Scaled platform from 100s to 50K+ orders/month.
- Drove two redesigns improving bounce rates and conversions.
- Tech: C#.Net, SQL Server, PHP, MySQL, Magento 2.

Sr. Software Architect | NordicSoft Ltd. | Dhaka, Bangladesh

2012 – 2013

- Led core financial projects, wrote complex SQL queries, managed roadmaps and 12+ engineers.

Software Engineer | BrainStation-23 | Dhaka, Bangladesh

2011 – 2012

- Developed ASP.NET MVC 4.0 and jQuery apps, optimized team deliverables.

Software Architect, Tech Lead | eDicte Tech Solutions | Dhaka, Bangladesh

2004 – 2011

- Managed product roadmaps, supervised 15 engineers, delivered financial and ERP solutions.

Select Project Highlights

- E-Commerce Automation Platform: Automated Shopify order/product workflows using Node.js, Python, AWS Lambda; delivered real-time reporting for several stores.

- Custom Shopify Apps: Built checkout, fulfillment, analytics apps (Node.js backend, React/Polaris frontend).
- Healthcare Diagnostics (Biovica, MirScientific): Architected serverless platforms for medical reporting and notifications.

Education

BSc in Computer Science & Engineering

Stamford University Bangladesh | 1999 – 2003 | GPA: 3.59/4.0

Profiles

LinkedIn: <https://www.linkedin.com/in/alamrezoanul>

GitHub: <https://github.com/alamrezoanul>

StackOverflow: <https://stackoverflow.com/users/2139871/rezoanul-alam-riad/>

Technical Skills

Software Architecture, Agile Development, Test-Driven Development, Team Leadership, Shopify Theme & App Development, Python Automation, Cloud Solutions (AWS), API Development & Integration, Data Engineering, Project Management, Mentoring

SUMMARY (AI Extension)

An experienced full-stack developer and cloud architect with over 21 years of expertise, now deeply engaged in AI integration for mental health applications. Recent work includes designing and building an AI-powered mental health companion with:

- Voice transcription using Whisper.cpp
- Speech Emotion Recognition (SER) using librosa and scikit-learn
- Real-time emotion and anxiety analysis from text and audio
- Local LLM integration (Mistral) for personalized, privacy-first AI journaling feedback
- FastAPI-based scalable backend for inference and REST APIs

EXPERIENCE (AI Focus)

AI Developer & Architect (Self-Directed Project)

Jan 2025 – Present

- Built Mindspring, an AI-powered mental health journaling app using React Native and FastAPI
- Developed voice analysis pipeline (librosa + custom SER model) to classify emotion

and anxiety from user audio

- Integrated local LLMs via Mistral for generating empathetic responses
 - Created real-time chat feedback loop using mood inference and speech synthesis
 - Applied NLP to detect sentiment trends and generate weekly summaries
-

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