

Amudha Balamurugan

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<https://devabm.github.io/digitalResume/> | [linkedin.com/in/amudhabalamurugan](https://www.linkedin.com/in/amudhabalamurugan) | github.com/DevABM

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Recent Projects:

Optimizing Deployments with EC2, S3, IAM, and Jenkins Integration using Terraform

github.com/DevABM/TerraformProjects/tree/main/JenkinsWebserver

- Deployed a web server on Ubuntu and installed Jenkins on the EC2 to carry out the CI/CD for the web server. Also created an S3 bucket to store the Jenkins artifacts and restricted its access from the public.
- Tools Used: Terraform, AWS Cloud9, EC2 and S3
- [Project Documentation on Medium.](#)

AWS 3 Tier Architecture using CloudFormation

github.com/DevABM/LUIT3Tier

- Developed a 3-tier architecture using CloudFormation and was able to connect to the database both through AWS-CLI and the browser.
- Tools Used: CloudFormation, EC2, DynamoDB, VPC, ALB, ASG
- [Project Documentation on Medium](#)

EC2 Start/Stop

github.com/DevABM/MyBoto3Scripts

- Automated the start and stop of EC2 instances by using the serverless technique Lambda.
- AWS Lambda, Boto3, python
- [Project Documentation on Medium](#)

Tech Skills:

Amazon Web Services - Serverless - Lambda - DynamoDB - CloudFormation - S3 - Boto3 - python - Linux - CI/CD - Docker - Jenkins - Terraform - VS Code - Trello - GitHub - RestAPI - EC2 - IAM- Cloud9

Certifications:

Certified Developer Associate, Amazon Web Services - Apr 2024

Certified Splunk Core User, Splunk - Nov 2023

Certified Cloud Practitioner, Amazon Web Services - Jun 2022

Education:

M.Tech in VLSI Systems, National Institute of Technology

Aug 2003 – May 2005

GPA: 3.2/4.0

Coursework: FPGA, Digital Signal Processing, VHDL/Verilog, ASIC

B.E in Electronics and Communication Engineering, Madras University

Aug 1995 – Jun 1999

GPA: 3.7/4.0

Coursework: Digital Electronics, Communication Systems, LIC, Probability & Statistics

Experience:

AWS Cloud DevOps Engineer Trainee, Level Up in Tech

Jan 2024 – present

- Spent 24 weeks on intensive training on AWS, Terraform, and Docker. Did 14-17 projects to get hands-on experience and work in a real-time environment.
- Deployed a three-tier architecture on AWS using CloudFormation and was able to connect each tier both on console and AWS-CLI
- Used Trello to keep organized about the project deadlines and better documentation.

Software Engineer, J.P. Morgan Virtual Experience on Forage Jan 2024

- Set up a local development environment by downloading the necessary files, tools, and dependencies. • Fix broken files in the repository to make the web application output correctly.
- Used JPMorgan Chase's open-source library Perspective, to generate a live graph displaying a data feed that is clearly and visually appealing for traders to monitor.

Junior Web Developer, Cloud City Partners, NY

Sep 2022 – Jul 2023

- Assisted in developing and maintaining websites and web applications using S3 and AWS CloudFront.
- Collaborated with senior developers and other team members to implement new features or fix bugs
- Ensured functionality and responsiveness of web pages.
- Troubleshooting and debugging issues that arose during development or testing.
- Handled Github main branch as project coordinator to handle all the push and merge issues.

Career Break

Feb 2012 – Feb 2022

- Moved to the USA, became a full-time MOM, and took full control of raising the family.
- Learned about fish keeping and started grooming ornamental fish, participated in the Aquatic Experience convention, and won prizes for aquascaping and healthy breed for my Red Jewel Cichlid.
- Maintaining 8 aquariums with more than 100 fish with a survival rate of more than 90%
- Upskilled IT knowledge and earned three certifications in the last two years.

Assistant Professor Amity University, Noida

Dec 2007 – Jan 2012

- Performed a behavior analysis of the psychological state of the students and implemented appropriate behavioral adjustments.
- Led a team of 6 faculty and students in various project work and effectively set up the lab cost

Lecturer Sri Krishna College of Engineering and Technology, India

Feb 2006 – May 2007

- Developed course syllabus outlining standards, material, grading, and progression of students
- Was a Residential Tutor for 150+ students and was responsible for the whole Hostel's maintenance including grocery and utilities.

Software Intern Seimens Information System Limited, Bangalore

Jan 2005 – Jun 2005

- Developed image processing tools using Verilog and VHDL and deployed them on Xilinx
- Implemented an algorithm on both Matlab and FPGA Xilinx boards to estimate the vehicle speed

Publications

- [Object detection and tracking in Video Sequences in Second International Joint Conference on Advances in Engineering and Technology, AET 2011](#) By Manisha Chahande, **Amudha S**, Vinaya Gohokar, ACEEE Int. J. on Signal & Image Processing, Vol. 03, No. 01, Jan 2012