

# Anas Malvat

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## EDUCATION

### Dalhousie University - GPA: 4.23/4.30

*Masters in applied computer science*

Halifax, NS, Canada

Jan. 2022 – June 2023

### Gujarat Technological University - CGPA: 8.92/10

*Bachelor of Engineering in Information Technology*

Ahmedabad, Gujarat, India

Aug. 2017 – Aug 2021

## EXPERIENCE

### Creator

June 2023 - Dec 2023

*Alpha Algo* | React, Node, AWS, S3, DynamoDB, ELB, EC2, ECS, Route53, Redux, CSS.

Halifax, NS, Canada

- Founder of Alpha Algo, a dynamic coding platform with **50+ users**, developed responsive interface with React
- Engineered a Node & Express backend with REST APIs, ensuring **100% protection** against XSS, CSRF attacks.
- Automated deployment with Docker, Nginx, and shell scripting on Amazon EC2, while engineering AWS multi-region backend micro-services, **reducing server costs by 40%**.

### Freelance Software developer

Aug 2023 - Dec 2023

*Dalhousie University* | Gitlab API, ReactJs, Node.js, Express.js, Redux, TailwindCSS, CSS.

Remote

- Developed **GitLab Visualization tool**, to monitor students across **three courses** for Dalhousie University.
- Reduced assessment time by **89% (from 160 to 18 hours)**, saving over **\$10,000 annually** for the university.
- This tool tracks student's GitLab activities, such as contributions, code commits, and merge requests.

### Co-Founder

Mar 2023

*Dalhousie Computer Science Leaders Society* | Competitive Coding, System Design

Halifax, NS, Canada

- Established a society at Dalhousie University, empowering **100 enrolled** students to excel in competitive coding.
- Organized first-ever summer code camp at Dalhousie University, hosting five live coding session for 100+ students.

### Software Developer co-op

Jan 2023 - May 2023

*Canada Revenue Agency* | Java, Angular, TypeScript, RxJs, Jenkins, OpenShift, PostgreSQL, Junit.

Remote

- Created microservice in Agile environment using Java, PostgreSQL & Maven **reducing manual efforts by 60%**.
- Integrated gRPC for communication, **7X faster** than REST API. Conducted testing with JUnit & Mockito.
- Developed Angular app for bulk uploads with Solace, automated deployment of Docker on OpenShift via Jenkins.

### Computer Science Teaching Assistant

Sept 2022 - Dec 2023

*Dalhousie University* | Cloud Computing, Data Structures & Algorithms, Network Security

Halifax, NS, Canada

- Mentored **200+ students** in AWS, Docker, CloudFormation, Kubernetes, Data Structures, Algorithms.
- Mastered cloud architecture through **30+ student** report reviews, leading live sessions on AWS serverless design.

### Software Developer

Nov 2020 - Oct 2021

*Cromson Technologies* | Python, Java, Angular, TypeScript, MongoDB, AWS, S3, SQS.

Gujarat, India

- Elevated e-commerce engagement through Agile development using Django, Spring, React, and NodeJs.
- Developed Angular component for customer-facing interface, increased user interaction time by **22%**.
- Refactored codebase for Java Spring & Python Django for online invoice payment app, reducing **uptime by 7%**.
- Implemented efficient RESTful APIs in Node.Js, resulting in a **20% decrease in response time**.

## AWARDS AND CERTIFICATIONS

**AWS Certified Solutions Architect - Associate:** Amazon.

**AWS Certified Cloud Practitioner:** Amazon.

**GeeksForGeeks:** Ranked **Top 50 worldwide** on GeeksForGeeks coding platform.(1350+ problem solved in C++).

## SKILLS

**Languages & Databases :** C, C++, JavaScript, TypeScript, Java, Python, SQL, MongoDB, MySQL, postgresQL.

**Frameworks & Others:** Redux, RxJS, gRPC, Hibernate, Maven, JUnit, Django, Agile Methodology, Design Patterns

**Web Technologies:** HTML, CSS, Angular, ReactJs, NodeJs, ExpressJS, Tailwind CSS, RESTful API.

**Technologies:** Git, Docker, GCP, Kubernetes, OpenShift, AWS, Shell Scripting(Bash), OAuth2,GraphQL, Jira.

**Personality:** Leadership, Team Player, Organized, Disciplined, Critical Thinking, Excellent Communication.

## PROJECTS

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**Alpha Algo** | *Git, Docker, React, Node, AWS, S3, DynamoDB, ELB, EC2, ECS, Route53, Redux, CSS.*

- Founder of Alpha Algo, a dynamic coding platform with **50+ users**, developed responsive interface with React.
- Engineered a Node & Express backend with REST APIs, ensuring **100% protection** against XSS, CSRF attacks.

**Dalhousie Multifaiith Service** | *ReactJs, Python Django, Gitlab CI, SonarQube, MongoDB, MySql, Heroku*

- Designed the platform following agile methodology to help 20000+ students overcome mental health issues.
- Implemented clean coding practices including Test-Driven Development, Design Patterns, and SOLID principles.

**RentoCar** | *ReactJs, Amazon Web Services, Lambda, SNS, S3, SQS, EC2, API Gateway, DynamoDB*

- The users of this application can reserve a car with an online payment option, see reviews of cars, a car comparison option to compare the available cars, offers to apply, online support during or after reservation, and apply for job postings.

**Serverless Bed & Breakfast** | *Git, ReactJs, AWS, GCP, Cognito, Lambda, SNS, S3, Docker, MongoDB*

- Developed a multi-cloud hotel reservation system, ensuring high availability with a combination of GCP & AWS.
- Followed various functionalities, including authentication and user registration using a multi-cloud paradigm.

## REFERENCES

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**Professor Robert Hawkey:** *Senior Instructor, Faculty of Computer Science, Dalhousie University. — rhawkey@dal.ca*

**Docter Srinivas Sampalli:** *Senior Professor, Faculty of Computer Science, Dalhousie University. — srini@cs.dal.ca*