Assaad El Halabi
Backend and DevOps Engineer at Oreyeon

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Experience:

Software Engineer, Oreyeon   **07/2022 – Present**

- Integrated multiple services and APIs to build advanced applications, collaborating with front-end and machine learning teams for seamless service integration.
- Managed backend infrastructure using Node.js (Typescript), Python, AWS Lambda, and API Gateway.
- Implemented a local development environment and a CI/CD pipeline for efficient application lifecycle management.
- Led two teams in implementing and maintaining data services with dockerized Lambdas and Step Functions, ensuring system robustness and scalability.
- Developed dockerized internal tools and CI/CD pipelines for various deployment stages, leveraging Github actions and AWS Codebuild for automated checks in PRs, supplemented by manual code reviews.
- Conducted thorough quality assurance and testing, regularly updating critical libraries for compatibility and efficiency.

Software Engineer, AUB   **01/2021 – 06/2021**
- Worked as part of a team of software, data engineers and analysts with two professors as part of the initiative Khaddit Beirut.
- Automating data pre-processing and visualization pipelines
and tasks using Python.
- Collaborating with team members and professors to create and customize an interface and dashboard to interact and visualize Beirut explosion data and insights.
- Detecting demographic patterns of the explosion aftermath aimed at guiding future research.

Technical Skills:

- **Programming:** Python, Javascript, Typescript, Java, C++, Bash Scripting, OOP.
- **Front-End Web:** React.js, HTML, CSS, JavaScript, Bootstrap, jQuery, State Management (Redux)
- **Back-End:** Express.js, Node.js, AWS Lambda, AWS EC2, AWS ECR, Django, Fast API, Firebase.
- **Databases:** MySQL, PostgreSQL, SQL Server, Firestore, AWS RDS, relational and non-relational databases.
- **Tools:** Github, Bitbucket, Jira, Azure DevOps, Github Actions, Netlify, Vercel, Heroku.
- **Machine Learning & Data Science:** Numpy, SKlearn, Pandas, Keras, Neural Networks, NLP, TensorFlow.
- **Cloud Infrastructure Design & Management**: AWS Lambda, AWS Cloud Services, Docker, Docker Compose, Virtualization
- **DevOps**: CI/CD pipelines, Agile Methodologies, Git, Linux
- **Additional Skills**: Problem Solving, Continuous Improvement, Cross-domain Technical Knowledge

Education:

OnRamp Lebanon - Fast-Track to Senior Bootcamp 04/2024 – Present

- Participating in an intensive bootcamp designed to accelerate career progression to senior-level engineering roles.
- Focus on advanced software engineering practices, system design, and leadership skills.

American University of Beirut   **09/2021 – 02/2024**
- **MS in Computer Science**
- Full scholarship covered by MEPI.
- Peer-reviewed multiple revisions of a publication that has been published on ACM Transactions on Asian and Low-Resource Language Information Processing.
- Thesis: Developed Arabic Conversational models powered by meta-learning and paraphrase-augmentation with little data as part of my master's thesis. Used Python, Google Colab, background jobs for automating data splitting and augmenting the partitions.

American University of Beirut   **09/2018 – 06/2021**
- **BS in Computer Science**
- Full scholarship covered by USAID.
- Placed on the Dean's Honor List, which recognizes students for their outstanding academic achievements.
- Courses: Advanced Algorithms and Data Structures, Software Engineering, Database Systems, Machine Learning, Data Science, Microeconomics.

Projects:

JSColab (04/2023)

Zero-setup notebook-based JavaScript environment for fast prototyping, inspired by Google colab, but for JavaScript and React.
- Fully featured JavaScript notebook code cells for fast prototyping and markdown cells for documentation.
- Ability to import any npm library or CSS library (e.g., Bulma) dynamically.

CollaBoard (05/2024)
Collaborative Whiteboard supporting real-time interaction among users for creative and planning purposes. OnRamp Bootcamp's final Project.

AraDialAug: Arabic Chatbots with little data (02/2024)
Arabic Conversational models powered by meta-learning and paraphrase-augmentation with little data as part of my master's thesis.

WeTube (11/2021 - 12/2021)
YouTube Clone using ReactJS and ASP.NET Core.

Emotion and Face pose Classifier (01/2021 - 04/2021)
Predicts emotion and if you are looking at the camera.

Languages:

Arabic (Native) | English (Proficient) | Portuguese (Intermediate) | Spanish (Intermediate)