Ahmed Belhadj
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Professional Summary

Accomplished and collaborative Software Engineer with over 7 years of industry experience, specializing in full-stack development, cloud technologies, and big data management. Proven track record of contributing to high-traffic applications, improving system performance, and building reliable infrastructure. Adept at leading successful projects, collaborating with cross-functional teams, and continuously learning new skills. Committed to delivering high-quality solutions.

Work Experience

Apple
Software Engineer
Remote | 12/2022 – 8/2024
- Developed and contributed to features for a cutting-edge AI-powered chatbot used by millions, leveraging technologies like Node.js, Python, AWS and Kubernetes within a fast-paced Agile team environment.
- Created exceptional business user interfaces with Python and JavaScript while collaborating with engineers, designers and project strategists to deliver innovative technical solutions and solve problems.
- Supported high-traffic production Python and JavaScript applications, databases and Kubernetes clusters with 99.95% up-time and fixed bugs collaboratively and independently.

Advocado
Software Engineer
St. Louis, MO – Hybrid | 8/2021 – 12/2022
- Developed software, fixed bugs, improved performance and features on a series of Node.js and Express.js APIs written in TypeScript and client web applications developed with React and Angular and deployed to AWS EKS, Lambda, EC2 and S3.
- Ensured the smooth operation of AWS services (Kinesis, S3, EC2, VPC, Elastic Beanstalk, CodePipeline, CloudWatch, EventBridge, Lambda, ECS, EKS, EMR, ElastiCache, MSK) and software releases, running them as securely and efficiently as possible.
- Designed, implemented and managed application health and security alerts, as well as monitored alert streams and responded to resolve production impacting issues directly and by engaging appropriate resources to work towards a resolution.

Gun.io
Web Developer
Remote | 12/2017 – 7/2021
- Spearheaded legacy website modernization, achieving 30% faster page load times, enhanced aesthetics, and introduced electronic payment and file upload functionalities using JavaScript, Node.js, React, WordPress, and PayPal APIs.
- Elevated code quality and reduced errors by overseeing and approving 450+ pull requests through code reviews and stand-ups.
- Collaborated with 120+ developers on team projects utilizing a tech stack of JavaScript, React, Redux.js, GraphQL, Apollo, Node.js, and Express.js, boosting engineering productivity through detailed documentation and progress reporting to management.

The University of Alabama
Web Developer
Huntsville, AL | 8/2013 – 5/2014
- Updated content on the school website using JavaScript, HTML, CSS & Joomla to provide information for each new school year and managed student records with Talisma CRM.
- Configured, troubleshot, & updated hardware & software components to ensure user usability & security.

Education
The University of Alabama
- Bachelor of Science – BS, Computer Science

Certifications
- AWS Certified Cloud Practitioner

Projects
Conversational AI Data Pipeline
Apple | 2024
- Designed and developed a scalable data pipeline using Pandas, Apache Airflow and AWS EKS to automate data ingestion, cleaning, and transformation, reducing data preparation time by hundreds of hours and enabling faster, more accurate model training on millions of conversations monthly.

Containerized Microservices for AWS EKS Migration
Advocado | 2022
- Architected and implemented a containerized microservices architecture for seamless migration to AWS EKS, achieving a significant reduction in deployment time and failures using Docker, Kubernetes, and Terraform.

Skills
- Programming Languages: Python, JavaScript, TypeScript
- Web Technologies: FastAPI, Node.js, React, Next.js, HTML, CSS, Tailwind CSS
- Database Systems: PostgreSQL, MongoDB, Redis, Neo4j
- Cloud Platforms: Amazon Web Services, Google Cloud Platform, Databricks, Snowflake, Terraform
- Data Processing: Pandas, PyTorch, Scikit-Learn, TensorFlow
- DevOps Tooling: Docker, Kubernetes, Jenkins, Git, GitHub
- Data Visualization: Tableau, D3.js, Power BI
- Testing: Automation, Unit, Integration, Pytest, Jest
- Agile Methodologies: Scrum, Kanban
- Soft Skills: Adaptable, Mentorship, Communication, Solution-oriented, Collaboration

Volunteering and Leadership
Microsoft TEALS Program
Industry Volunteer
Remote | 2021 – Present
- Supporting computer science education in under-served high schools, mentoring teachers and empowering students with industry-driven curriculum.