

Adnane Ezouhri

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Education

University of Iowa

Master's, Software Engineering

August 2022 - May 2024

University of Iowa

Bachelor's, Electrical Engineer & Computer Science

August 2019 - May 2023

Professional Experience

Collins Aerospace

Software Engineer II

Cedar Rapids, IA, USA

June 2024 - Present

- Developed client-facing backend software in a Unix/Linux environment, improving reliability and system performance
- Repaired critical testing infrastructure, boosting system efficiency by 30% and strengthening backend validation workflows
- Built a communication feature using Python and Robot Framework, adding automated testing to existing infrastructure
- Implemented Redis to improve real-time data retrieval speed and reduce SQL query latency in high-frequency operations

University of Iowa

Teaching Assistant

Iowa City, IA, USA

August 2021 - May 2024

- Taught Ruby on Rails SaaS course covering REST APIs, cloud deployment, and client-server architecture
- Assisted in an IoT class, guiding students on networking protocols, Firebase, and database integration
- Mentored 100+ students on Agile workflows, Git, and backend infrastructure for scalable and robust SaaS projects
- Organized study sessions for 80% of the class, providing study guides and practice exams to improve exam preparation

Collins Aerospace

Software Engineer

Cedar Rapids, IA, USA

May 2023 - August 2023

- Collaborated with the Avionics team to develop the IMO system for Airbus A350, enhancing flight operation safety and efficiency
- Led daily Agile Scrum sessions using Jira, improving team communication and streamlining product development cycles
- Performed extensive testing of avionics software in simulation environments, validating behavior in real-time systems
- Upgraded document software from Python 2 to 3 and deployed it remotely, improving access for 10+ engineers

Farrpro

Software engineer

Iowa City, IA, USA

August 2022 - December 2022

- Optimized Sentry Software's dataflow, increasing system stability by 40%
- Engineered a real-time gateway with ESP32 and C++, enabling cloud communication and embedded networking
- Revamped in-house data structures to boost backend performance and scalability in distributed systems

Projects

Omnilense

Software Engineer

Iowa City, IA, USA

August 2022 - May 2023

- Reached 98% facial recognition accuracy using ML and optimized image processing in real time
- Secured multiple awards in a university-sponsored pitching competition, including funding of \$15,000 for business exploration

Notably

Software Engineer / Hackathon winner

Iowa City, IA, USA

September 2023 - September 2023

- Built an AI powered study assistant with GPT-3.5 and Natural Language Processing for personalized study materials
- Leveraged Google Cloud Vision API for OCR and deployed features using Flask and JavaScript in a cloud-based application

Skills

Skills: Node.js, Agile, Android Development, Computer Networking, Data Structures & Algorithms, Flutter, Heroku, JavaScript, Git, HTML/CSS, Java, Linux/Unix, MySQL, React.js, Ruby, Ruby on Rails, Python, Unity, Web Development, Go, Firebase, Software Testing, C/C++, Jira

Languages: French, Spanish, Arabic, English