

# Andy Mitchell

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## EDUCATION

### Illinois Institute of Technology

Master of Applied Science in Computer Science – GPA: 3.88/4.0

August 2024 – May 2025

Chicago, IL, USA

### Universidad Politécnica de Madrid

Master of Science in Software Engineering — Grade: 9.4/10

September 2020 – December 2022

Madrid, Spain

### University of Portsmouth

Bachelor of Science in Engineering and Management Studies — First Class Honours

September 2016 – July 2018

Portsmouth, UK

## PROJECTS

### Interactive AI Resume Chatbot | *React.js, TypeScript, n8n, Langchain, OpenAI API, Airtable* 2024 – 2025

- A full-stack AI chatbot providing an interactive way to inquire about my background, skills, and projects.
- Engineered an n8n workflow backend leveraging Langchain nodes to integrate OpenAI's GPT-4o mini for natural language understanding, designed system prompts to ensure a friendly and accurate persona.
- Constructed custom AI tools to dynamically query and retrieve specific data from multiple Airtable bases, ensuring contextually relevant and accurate information delivery while maintaining a small context window.
- Built a responsive user interface with React.js and TypeScript, featuring dynamically cycling preset questions, markdown rendering for chatbot responses, and real-time API communication with the n8n backend.

## EXPERIENCE

### Senior Software Engineer

Actemium Automation (Formerly Cougar Automation)

January 2022 – August 2024

Remote / Portsmouth, UK

- Developed and implemented a C# Windows service to automate timesheet reminders and data entry; the application presented scheduled pop-ups to users, web-scraped project codes from the internal intranet, and programmatically submitted timesheet data to the corresponding webform based on user selection.
- Acting as lead engineer, successfully delivered over a dozen projects on time and under budget for the company's third-largest client. These projects represented 11% of regional sales, generating over £550,000 in revenue for the Portsmouth region in 2023.
- Responsible for maintaining and updating a modular .NET application using a hybrid codebase of C# and VB.NET, comprising 11 projects and over 75,000 lines of code.

### Software Engineer Intern

Amigos del Cayapas Association/TEDECO

January 2022 – January 2023

Remote / Esmeraldas, Ecuador

- Developed a full-stack telemedicine web application with REST API using Elixir, Phoenix and PostgreSQL to support doctors working in indigenous and Afro-Ecuadorian communities in rural Ecuador.
- Completed development of a corresponding Android app in Kotlin to be used by doctors in rural communities to submit patient information to web application to solicit advice from volunteer specialists in Europe.
- On-site work involved commuting to several remote villages via canoe to perform outreach and usability testing, resulting in more than 20 local doctors registering for the application.

### Software Engineer Intern

Hovering Solutions

September 2021 – December 2021

Madrid, Spain

- In a fast-paced startup setting, designed and developed a full-stack web application using React, Node and MySQL to support parameter configuration for custom-built drones used for 3D scanning. Web app was hosted directly on drone, facilitating real-time parameter adjustments through a custom binary protocol to the ROS software.

### Software Engineer

Cougar Automation

August 2012 – February 2021

Portsmouth, UK

- Designed, developed, and commissioned software solutions for more than 50 industrial automation projects.
- Engineered an innovative "auto conversion tool" using C# and Windows Forms, which automated the conversion of legacy industrial control software to a modern platform.

## TECHNICAL SKILLS

**Languages:** Python, Java, C#, Kotlin, VB, Ruby, Elixir, SQL (MySQL, Postgres), JavaScript, HTML/CSS

**Frameworks:** React, Node, Express, Spring, JUnit, Rails, Bootstrap, Phoenix, Ecto

**Developer Tools:** Git, n8n, SVN, AWS EC2, Tomcat, Azure, Docker, VS Code, Visual Studio, PyCharm, IntelliJ