Evan O'Rourke

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About Me

I'm a Software Engineer and B.Sc. Computing student at NCI with a year of experience from internships at Shutterstock and Optum. I'm passionate about building and learning, always experimenting with side projects and exploring new technologies to stay sharp and up-to-date.

EDUCATION

National College of Ireland (NCI)   Dublin
Bachelor of Science in Computing   Expected May 2025
Cumulative GPA: 2:1
Relevant Coursework: Data Structures and Algorithms, Object Oriented
        Programming, Advanced Databases, Web Application Development, Data
        Communications and Networking, Software Quality and Testing, Advanced
        Programming, Intro to Artificial Intelligence and Machine Learning.

Virginia College   Cavan
Leaving Cert   2013 - 2019

WORK EXPERIENCE

ShutterStock   Dublin
Software Engineer Internship (Search Team)   Jan 2024 – Sep 2024
- Implementing new designs and features on ShutterStocks website using Next.js, React.js, Typescript + Javascript.
- Upgraded an internal tool for comparing search ranking formulas using Python (Flask) and React.js + JavaScript. Transformed it from an unused tool into an important resource used daily by the backend Search team.
- Created a tool to automate handling DLQs in RabbitMQ for a backend aggregation service with Python.
- Tracked down and fixed requests from the frontend service to the backend Node.js server that were missing important headers and parameters. Unified logic with reusable functions to handle setting headers and parameters on all requests.
- Wrote unit tests and end-to-end tests for all changes and updates to each service with Jest, Playwright, JUnit, and unittest.

Optum   Dublin
Software Engineer Internship (AI Team)   Jun 2023 – Aug 2023
- Worked with my team to develop an application in Python that automatically scraped and analysed information, extracting valuable insights and trends from data, which is then presented and visualised in a front-end, streamlining the research process for an internal team.
- I optimised the web scraping process and made it 2.5x faster.
- I created multiple methods of extracting important information from the dataset and displaying it to the user.
- Gave 4 shark tank presentations describing our work progress to project stakeholders and other teams.
- Worked as a part of a team using Git for version control, involving responsibilities such as creating and handling pull requests and conducting code reviews.

Personal Projects

URL Shortener and QR Code Generator
- Built a backend REST API with Python and Flask to serve mobile responsive HTML, CSS and Javascript and manage HTTP requests from users.
- Integrated a MySQL database to store and manage shortened and original URLs.
- Created a user friendly front-end for users to interact with using HTML templates.
- The Flask app and MySQL Database are both hosted on Azure. - lillink.net.

Sorting Algorithms Visualiser
- Created a website using Javascript, HTML and CSS to display how sorting algorithms work step-by-step.
- Visualised Bubble Sort, Insertion Sort and Selection Sort.

Projects shown on my Portfolio Website with many other projects on my GitHub.

COLLEGE PROJECTS

Final Year Project (WIP): Real Time Live Streaming E-Commerce Website
- Web-application frontend being created with Next + ReactJS, Typescript and Material UI.
- REST API service created with Node.js, Express.js, and TypeScript for handling interactions with MongoDB.
- Web Socket Service for realtime chat with NodeJS, SocketIO, ExpressJS and TypeScript.
- Video streaming service created using Node.js, Mediasoup as a SFU (Selective Forwarding Unit) to enable low-latency streaming with WebRTC.
- Using Microsoft Authentication Library to allow users to login with their microsoft account.

Drink Recommendation App
- Designed and implemented a drink recipe and recommendation application in a 4-person team.
- Created a recommendation system that suggested new drinks to users based on other drinks they liked.
- Designed and implemented the user-friendly front-end interface using React.js, TypeScript, and SCSS, enabling users to browse, like, and comment on drink recipes.
- Developed a backend REST API using Node.js and Express, backed by a MySQL database hosted on Azure.

Tech Skills

Programming: Python, JavaScript/TypeScript, Java, C#, SQL
Other: Flask, ReactJS, Next, NodeJS, GIT, Azure, Docker, ubuntu, Jest, Playwright

Other

References available on request.