

Nicholas Ferrara

Learn more and get in touch at nicholasferrara.net

Based in London, UK • Right to work in the UK: ILR (No restrictions)

SUMMARY

Passionate full-stack senior software engineer seeking a new on-site, hybrid, or remote challenge in central London. Constantly programming for 14 years. Polyglot in computer and human languages. Focus on process automation with a product engineering mindset.

RECENT ROLES

Shawbrook Bank

London, United Kingdom

Senior Full Stack Engineer

September 2023 – Present

- JavaScript (React / TypeScript) and Python (Pandas / Flask) innovation for product data analytics
- Setting Python standards and enabling analysts as the first Python software engineer at the Bank
- Owning, acquiring, and developing a large network of internal tools to democratise company data

Eigen Technologies

London, United Kingdom

Senior Software Engineer

May 2022 – January 2023 (Redundancy)

- Productionised AI at a series B scale-up to automate bank and insurance company workflows
- Python (Django, FastAPI) and JavaScript (React, Redux) development of complex functionality
- Decoupled an existing monolith by building microservices and created appropriate tooling

The Royal College of Veterinary Surgeons

London, United Kingdom

Senior Software Developer

November 2018 – April 2022

- Digitally transformed manual processes for every veterinary professional in the United Kingdom
- Grew team to four developers, mentored on the job, and managed technical interviews
- Coded in React (TypeScript) on the front end and Python (Django, Postgres) on the back-end
- Decoupled APIs through a serverless architecture with AWS Lambda, API Gateway, and NodeJS
- Produced a complex greenfield mobile application using React Native, Redux, and Expo
- Modernised continuous integration and deployment with a new GitHub Actions based pipeline
- Reimagined testing to increase automation with a focus on accessibility and security

TECHNICAL EDUCATION AND SKILLS

The University of Glasgow

Glasgow, United Kingdom

Master of Science in Software Development

September 2017 – November 2018

- Learned to solve complex problems with technology at one of the world's top 100 universities
- Primarily undertaken in Java, with additional work in Python, SQL, and assembly
- Wrote dissertation on using function level dependency graphs in Python to measure code quality
- Focused on important principles including agile development, scalability, and security

Core technical skills: Python, TypeScript, JavaScript, React, React Native, NodeJS, Redux, NumPy, Pandas, Docker, AWS, Azure, serverless architectures, CI/CD, GitHub Actions, Git, Expo mobile, FastAPI, Flask, Django, PostgreSQL, Bash, accessibility testing, Pytest, Jest, Cypress, REST APIs, Agile, HTML, and CSS

PREVIOUS ROLES

Student Association of Binghamton University, Inc. Binghamton, New York, United States
Chief Executive Officer May 2016 – May 2017

- Full-time manager of nonprofit with \$5 million in revenue, 150 paid staff, and 100s of volunteers
- Empowered software engineers to save \$10,000s in staff time by transforming paper workflows
- Executed the largest restructuring in decades, reducing inefficiency and increasing stability
- Reallocated \$150,000 annually from popular wasteful programs to wiser initiatives
- Addressed 800 people per orientation leaving 97% interested in getting involved

Bearcat Exchange Binghamton, New York, United States
Co-Founder and Lead Software Developer January 2015 – May 2017

- Created online textbook reseller to connect nearby people in person and avoid shipping fees
- Implemented a robust AWS setup including EC2, RDS, CodeDeploy, SES and similar

Burritos to Bartle Binghamton, New York, United States
Lead Software Developer (Contract) March 2015 – May 2015

- Transformed client's idea into a complex website while training a less experienced developer

ND Pro Media Monticello, New York, United States
Video Editor (Contract) June 2017 – August 2017

- Professionally edited TV commercials and web videos for a film studio using Adobe Premiere

NON-TECHNICAL EDUCATION AND SKILLS

Binghamton University Binghamton, New York, United States
Bachelor of Arts in Political Science, Minor in General Anthropology August 2014 – May 2017

- Produced professional quality wedding and promotional videos on the side to support studies

Management: Experience managing and risk managing large-scale projects and enterprises

Human languages: English (native), French (B1), Czech (B1), and Slovak (understanding A2)

Media production: Experience producing and editing professional quality photos and videos

Private Pilot with Glider Rating: Can fly aircraft over 3 hours without an engine