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Nico McGill

Profile

Creative and versatile Software Engineer with a diverse skill set encompassing Programming and Data analytics, Webapp development, Cloud Infrastructure and AI, and a degree in Mechanical Engineering. My passion lies in leveraging technology and automation to build great things. I bring a proven track record of problem-solving and project management, coupled with great interpersonal abilities that enable me to excel in dynamic team environments.

Skills

- **Web Development**: Full-stack development expertise using tools React, Node.js, with a focus on creating scalable and robust web applications.
- **Programming and Automation**: Proficient in Python, SQL, JavaScript; experienced in creating and using API's, building cloud tools, contributing to open source.
- **Cloud and Infrastructure**: Skilled in managing cloud infrastructure and virtualization in AWS, Azure, Citrix, and holding ITIL v4 Certification.
- **Project Management**: Effective project management and teamwork abilities, proven in dynamic and challenging environments.
- **Engineering Design**: Solid background in Mechanical Engineering, proficient in 3D CAD software like SolidWorks and Cinema 4D.

Experience & Projects

R&D Software Engineer – Chemwatch   Feb 2024 – Present
- Built a Gmail extension that used LLM's to summarise a user's inbox.
- Built a webapp for retrieving US regulations on transport of hazardous materials.
- Implemented Redis caching and CDN on company website, dramatically improving latency and overall site performance (2-3x).
- Gained skills in AWS technologies such as EC2, lambda functions, s3, API gateway etc

Founder & Developer, GetRoasted.lol   Sep 2023 – Present
- A webapp that lets users get their pictures 'roasted' by AI.
- ReactJS frontend, Python/Flask for API development and inference.
- Gained Experience in Full stack development, frontend, backend, hosting.
- Developed whilst travelling South-East-Asia and Australia for 6 months.

Desktop Support Engineer - Braemar Shipbroking   Jan 2022 – Sep 2023
- Software and Infrastructure support for London-based Shipbroking firm
- Became the team expert in Microsoft Azure, Active Directory, Office365, Windows 10 Desktop and Infrastructure, Citrix/XenApp Cloud and Workspace, Exchange & Endpoint manager.
- Trained colleagues on all areas of the software stack.
- Led projects to upgrade IT systems, including a full migration of our CRM system, as well as migration of data to SharePoint.
- Gained people management skills among all levels of management up to CEO, communicating complex IT jargon in an understandable way.

Projects:
- Created a large-scale data aggregation project in Python for displaying futures, commodities, and currency prices to shipbrokers.
- Implemented software tools to improve broker productivity and event campaigns.

- Ran a data analytics project on shipping data that improved data quality and throughput using Microsoft Power Query and Power BI.

Data Analyst/Administrator - Nightingale Hammerson **Jan 2020 - Sep 2020**
- Managed a large MSSQL database for complex fundraising campaigns, coordinating with multiple stakeholders.
- Became highly proficient in analysis and visualisation of large datasets using Excel, PowerBI and SQL.
- Developed an automated reconciliation process using Excel scripts, reducing process time by ~3x and processing over £3.2 million in donations.

IT Solutions Provider - E-computing **Jan 2019 - Jan 2020**

- Provided IT repair and technology solutions to both business and consumer clients.
- Demonstrated strong client/customer relationship management skills.

Education

University of Sheffield **Sep 2016 – June 2021**

Bachelor of Mechanical Engineering (with Business Management) Hons, (awarded 2.1)
- Dissertation: Machine learning and artificial neural networks for prognosis and failure prediction of engine bearings
- 1st Place – 'Engineering, you're hired', competition to design and present a method for safer cycling.

- University Poker and Pool, and programming societies

Alleyn's School **Sep 2009 - June 2016**
- A-Levels: Maths (A), Physics (A), Design Technology (B)
- GCSE: 5 A*, 4 A, 1 B
- Cricket 1st XI

Hobbies/Interests
- Keen poker player
- Bouldering/Rock climbing
- Pool and Snooker player
- Mountain biking
- Travel

References available on request