4 Faseman Avenue
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MARK PERRYMAN

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Experienced software engineer looking for a new opportunity after major downsizing of AFO team at Microsoft. UK-based or remote, employment or contract.

Rust and Python technical expert, producing well-structured, performant code that is effectively testable. Enjoys both working solo and developing others, taking pride in his work.

WORK EXPERIENCE

Software Engineer – Metaswitch Networks, then Microsoft, Azure for Operators

2024 – now   Azure-native IMS Core (Rust-based) Automated Testing

 Microsoft Azure

- Senior engineer on team developing high-performance automated live-test framework for telecom operator core network, deployed in Azure Kubernetes Service.
- Proactive workflow improvements accelerating code-deploy-test cycle to increase velocity.

2022 – 2024   Azure Communications Gateway Development and Support

- Developed core logic within billing module (Python Azure Function App), including comprehensive unit testing. Involved authentication with multiple Azure APIs.
- Improved the out-of-hours rota to better reflect colleague preferences and improve morale.
- Wrote tooling shared across ~1000 developer org to ensure Python coding best practices.

2019 – 2022   Perimeta (Session Border Controller) Development

 metaswitch

- Led medium-sized feature developments, producing designs and test strategies, coding, code reviewing, and live testing depending on the needs of the scrum team.
- Features involved coding in Python, Rust, C. Linux-based, Git code management (Gitlab/ADO).

2018 – 2019   Clearwater (IMS Core) Development

- Developed and tested features in a scrum team: using C++, Python, Robot Framework. Contributed to the open-source Project Clearwater mailing list and blog.
- Scrum-master and C++ champion, promoting modern C++ within the team.
- Refactored deployment sizing calculator tool to improve testability and maintainability.

2016 – 2018   Mobile Engineering Solution Test

- Set up and documented a test rig on OpenStack for VoLTE solution testing. Programming SIM cards, debugging IMS/SIP flows. Liaised with external partners.

2015 – 2016   Professional Services

- Produced tools using Python, Java, Scala, Cassandra DB. On my own and in a small team.

Secondary School Teacher – Maths and Physics

2014 – 2015   Foxford School and Community College, Coventry

2013 – 2014   King Edward VI School, Stratford-upon-Avon

2011 – 2013   The International School, Birmingham

EDUCATION

- **2010 – 2011**   *University of Warwick*
  Postgraduate Certificate of Education (Secondary)
- **2006 – 2010**   *University of Warwick*
  MMathPhys (Hons) Maths and Physics 2:1
- **pre 2006**   Four A-Levels (grade A), One AS-Level (B), Ten GCSEs (A*-A)

OTHER

Languages – Native English, fluent French, conversational German.

Interests – Charity Trustee (Hope into Action Coventry), Amateur Dramatics, No-fly Travel, Politics, Brancepeth Castle, Organising Ski Trips.

References on Request