Benjamin Woods

Head of Engineering



About me

Full-stack generalist, leader, manager, and enemy of waste, with experience in startups, big tech, and academia.

I work best as glue, bringing teams together and filling in

I take pride in **reducing waste**, prefer to adhere to lean and Agile processes, and believe in documentation-first development.

Areas of specialization

Python • Integration Glue code · Bug hunting Team optimization Requirements analysis Testing · Tooling

Technologies

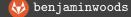
Python | 5+ years JavaScript || 3+ years

pytest Next.js iest flask numpy cucumber iwt react express • git poetry yarn • Docker **Kubernetes**

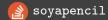
Languages

English · native German · basic









RECENT EXPERIENCE

2021-1y 11m

Head of Engineering 10BE5 · London, UK 9

Leading and managing a team with 2 direct reports, 1 indirect report.

Led the development of 3 products from inception, all currently in pilot or commercial phase.

Leading the team on development, UX, CX, QA. Primary resource for product management and project management. Created and built SOPs. Led initiatives to accelerate development + improve team performance:

- · Shifted development processes from waterfall to Agile. Reduced average lead time by >75%.
- · Shifted test culture to test-as-you-go. Increased the no. of team members regularly writing tests by >200%.
- Shifted acceptance test ownership to developers, moved team to BDD, and set up standardized code review.
- Empowered developers to propose their own features and take ownership of customer success.

Full stack development using Node.js, Electron, Python, git, AWS, Azure, Kubernetes. Extensive work with Flask, pytest, Jest, Docker, Poetry, Yarn, GitLab CI/CD, and Cucumber.

2021-2021

Solution Architect

10BE5 · London, UK 9 Oy 3m

Development using Node.js, Electron, Python, git. 1 direct report.



2020-2021

Software Engineer

10BE5 · London, UK 💡 1y 6m

Part-time role. Primary developer for software packaging/deployment.



2020-2021

Engineering Technical Writer

Mathworks · Cambridge, UK ♀ 1v 4m

> Full-time role. Writing documentation and examples principally for Parallel Computing Toolbox and MATLAB Parallel Server.

Work involved using MATLAB, XML, and standard *nix + sysadmin utilities.



2019-2020 Oy 6m

Research Associate

University of Leeds · Leeds, UK 9

Intensive 6 month project. Automated machine learning using stochastic control methods with time constraints. Primarily used metaprogramming, scikit-learn, Pandas, numpy, dask.



EDUCATION

2015-2020

Plasma Science and Fusion Energy

РнD · University of York 🟦

Nonlinear wave-particle resonance in deterministic and stochastic kinetic plasmas Analytical/computational modelling and analysis of nonlinear systems using linear/nonlinear spectral decomposition; machine learning driven studies of complex data sets in tokamak plasmas; writing high performance parallel code in C.



MPHYS · University of Exeter <u>m</u>

Specialisation in QFT, experimental metamaterials, and elasticity theory



