Francis Gurr

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Experience

Senior Software Engineer Aug 2024 – Present

Pendo

- Repeatedly stepped into the tech lead role during team transitions, assuming full leadership responsibilities and driving project execution
- Redesigned the customer onboarding flow, integrating personalization features that increased install rate by 4% and reduced the time to first feature tagging by 37%.
- Developed the homepage for the Pendo app, improving user experience and reducing time to value by 16% for all customers and 20% for enterprise clients.

Software Engineer Aug 2022 – Jul 2024

Pendo

- Created the core interaction model for Pendo Roadmaps, serving as the foundation of the product
- Led multiple epics from planning to delivery, coordinating across teams to ensure technical feasibility and timely execution
- Guided associate developers through mentorship and onboarding, ensuring they quickly became productive team members
- Delivered conference talks on various topics, such as Vue composables, engaging audiences and enhancing developer adoption within Pendo
- Recognised as the top recipient of Pendo's "Win Together" awards for collaboration and impact
- Assisted in organising an internal product and engineering conference

Associate Software Engineer Jun 2021 – Jul 2022

Pendo

- Developed expertise in JavaScript, Vue.js, and testing frameworks (Jest, Cypress) through hands-on project work
- Enhanced office culture by founding a weekly climbing club

Embedded Software Engineering Intern Jul 2019 – Sep 2019

Q-Free

- Designed a non-intrusive roadside detection system prototype for vehicle classification
- Developed software using C and Python to process LiDAR and radar data, generating real-time 2D vehicle profiles
- Received a summer internship at Q-Free to further develop my prototype into a functional system

Research Intern Jun 2018 – Feb 2019

Durham University, Department of Maths and Computer Science

- Developed a Python-based classification algorithm to generate unique quartic graph configurations for mathematical research
- Research findings formed the basis of the main theorem in "Quartic Graphs that are Bakry-Émery Curvature Sharp", published in Discrete Mathematics, Volume 343, Issue 3, DOI: 10.1016/j.disc.2019.111767

Publications

Camera-Based System for the Automatic Detection of Vehicle Axle Count and Speed Using Convolutional Neural Networks | *C, Python, Machine Learning* Sep 2022

- Published in the International Journal of Intelligent Transportation Systems Research, Volume 20, DOI: 10.1007/s13177-022-00325-1

Skills

Programming languages: JavaScript, HTML/CSS, Python
Frameworks and libraries: Vue.js, Jest, Cypress
Developer Tools: Git, Linux, Neovim, Docker
Languages: Fluent in English and German

Education

Durham University 2015 - 2020

Master of Engineering, Electronic Engineering, 2:1