Behnaz Shojaei

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Data Processing and Software Engineer with Electronics Background

Data-driven software engineer with a background in electronics engineering. Skilled in Python, C#, C++, and data processing, with a proven track record in troubleshooting, signal processing, and full-stack development skills.

Key Skills

- **Programming**: Python, C++, C#, Django/DRF, JavaScript/React; test-driven development, Git workflows.
- **Data Processing**: Signal and image processing (C++, MATLAB, NumPy, SciPy), data manipulation, finite element analysis using COMSOL and MATLAB for nanowire sensor data.
- **High-Performance Environments**: Data pipelines, code optimisation, troubleshooting.
- **Team Collaboration**: Multicultural, cross-functional team experience.
- **Electronics**: Strong foundation in electronics, biomedical devices, and quality control from work as a Biomedical Field Engineer.

Professional Experience

She Codes Plus Program, Matrix Data, WA
Full-Stack Development Program | Jul 2024 – Present

- Developed Python project for weather data processing with test-driven development, hosted on GitHub.
- Built backend for a crowdfunding project with Django and DRF, tested with Insomnia, deployed on Heroku.
- Front-end development with JavaScript and React.

Biomedical Field Engineer, Hollywood Hospital, WA
Jul 2016 – Apr 2017

- Conducted maintenance and testing on biomedical devices, following Australian standards.
- Managed and documented data for audits, with troubleshooting experience applicable to HPC systems.

Biomedical Field Engineer, Behboudsazan Group, Iran
Dec 2012 – Mar 2016

- Provided technical consultations, maintenance, and compliance checks for medical facilities.

Education

- MSc in Nanoelectronics and Nanotechnology, University of Southampton, UK | 2012
- BSc in Biomedical Engineering, University of Esfahan, Iran | 2010

Professional Development: AWS, Snowflake, Power BI, Data Analytics, Probability, and Statistics.