MIKOLAJ MARCINIAK

Full Stack Developer | Computing Science graduate | MERN stack & more

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SUMMARY

I am a recent Computer Science graduate from the University of Aberdeen with 2 years of hands-on experience as a Full-Stack Developer, specializing in the MERN stack and WordPress. I am looking forward to an opportunity to apply and further develop my skills while contributing to a dynamic team.

I am fully authorized to work in the UK and do not require visa sponsorship.

To get in touch, feel free to email me at mikolaj@marciniakm.com or use the contact form on my portfolio at marciniakm.com/contact.

EXPERIENCE

Classroom Demonstrator

University of Aberdeen

09/2023 - 06/2024 Aberdeen, UK

- Taught 30+ students in practical classes across two courses, covering the full web development stack (HTML, CSS, JavaScript, Node.js, Git) and various database concepts (SQL, data warehousing, ERD modeling, spatial databases).
- Guided students through course assessments. Ranging from building distributed web applications with React and Express, to designing and implementing complex SQL database models based on incomplete requirements.

WordPress Webmaster

Simply Talking Edyta Zieba

05/2020 - 06/2021 Poznan, PL

- Resolved critical issues and restored site from backups. Reducing downtime during major updates from an average of 1 day per month to approx. 3 hours per month.
- Accessed and aggregated customer reviews from Google Places API, displaying testimonials on the front page, enhancing client credibility.
- Achieved a 27% month-over-month increase in organic traffic through effective SEO strategies, as reported by Google Analytics.

Fullstack React Developer

Premiumfaber ltd.

03/2019 - 10/2020 Poznan, PL

- Developed and maintained a 'serverless' SPA website (extra-english.pl) using React for frontend and AWS cloud services for backend functionality.
- Implemented TDD methodology with Jest for unit and component testing.
- Designed and built a React timetable component with DynamoDB, saving approx. £200/month in operational costs (timetables were previously kept on paper and manually updated each week).
- Automated the signup process by creating an online form for new clients. This simplified paperwork and allowed us to gather email addresses for targeted marketing.
- Increased local website reach by an average of 393 views and 38 visits per month (during 2020) via Google Analytics, helping establish it as the regional leader in English language schools.

EDUCATION

BSc (Hons) Computing Science

University of Aberdeen

09/2020 - 06/2024 Aberdeen, UK

SKILLS

Python **TypeScript** **PHP** **SQL** **C** **Java**

React **Next** **Node** **Express** **Tailwind** **CSS** **HTML** **MongoDB**

ETL **CI/CD** **Docker** **TDD** **Unit & Integration testing** **AWS & Azure**

CERTIFICATIONS

Principles + Practices for Great UI Design

Teaches a broad range of essential UI/UX design principles, including accessibility, color theory, typography, and data visualization.

The Complete Web Developer Course 3.0

Covers in breadth and depth a range of good practices and concepts critical for modern web development, expanding skills in HTML, CSS, JavaScript, PHP, Python, and MySQL.

PROJECTS

Bug Tracker

This is a bug-tracking and project management tool, similar to Jira. It allows authenticated users to manage tickets representing software bugs.

- Full CRUD functionality for bug tickets and projects via a RESTful API
- User account system with secure authentication and registration
- Advanced sorting and filtering options to manage and query bugs efficiently
- View the demo and other projects at marciniakm.com/projects

Framework for analysis of attribute inference attacks

Developed a framework for measuring data leakage, and exploring differential privacy techniques to evaluate and mitigate vulnerabilities in online machine learning models.

- Extensive customization of target models with Keras, including options for different evaluators, loss functions, and optimizers
- Model evaluation using metrics such as entropy, mutual information, F1 score, precision, recall, and accuracy
- Ability to evaluate differential privacy implemented through either Laplacian noise or the exponential mechanism