Tomas Mrkva

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CORE SKILLS

Adaptability: curious and motivated to explore and apply new approaches and practices across various technologies. Able to grasp and apply new concepts and produce business value quickly.

Teamwork: effective at collaborating with others in agile settings through pair-programming and knowledge-sharing. Actively engages in discussions throughout the development cycle and improves from feedback.

Communication: able to adjust the technical level of conversation based on the knowledge and goals of colleagues, communicating efficiently across various teams and business departments.

EDUCATION

University of Southampton, *BSc Computer Science*   2019 – 2022
First Class Honours   *Southampton, UK*
- Modules include: Programming in Java and Haskell, Data Management, Algorithmics, Distributed Systems and Networks, Software Engineering Group Project, Foundations of Machine Learning and Computer Vision

Gymnasium of Ladislav Novomesky   2010 – 2018
Grades 1 (highest possible) in Mathematics, Informatics, English and Slovak   *Senica, Slovakia*

EXPERIENCE

Software Engineer - Intern/Graduate Analyst   Jun 2022 – Present
JPMorgan Chase & Co.   *Glasgow, UK*
- Developed a complete refactor of a major component from Angular to React utilising React(TanStack) Query's local storage caching solution to minimise API calls, eliminating all loading times.
- Maintained an internal full-stack application (React/Angular and Java Spring Boot microservices), performing security fixes and feature improvements in a production environment.
- Improved the functionality of the internal React component system used within the Asset Management line of business, positively impacting hundreds of developers and more than 4000 business users worldwide.

Business Technology Intern   Jun 2021 – Aug 2021
Discover Financial Services   *Farnborough, UK*
- Performed data migration of YAML configuration files to a relational database hosted on the cloud.
- Delivered a production-ready system to update the migrated data in real-time using a front-end interface, preventing frequent and lengthy re-deployments, saving hours of application downtime per year.
- Obtained new skills in technologies such as JavaScript, React, MariaDB and Microsoft Power Automate.
- Improved teamwork and communication skills, working in a fully remote agile team through pair-programming.

Customer Care Representative   Feb 2019 – Jul 2019
AT&T Global Network Services s.r.o   *Bratislava, Slovakia*
- Assisted U.S. customers by resolving a variety of technical issues with AT&T services and products, ensuring their complaints were addressed according to the quality protocols, delivering a high standard of customer service
- Exceeded both team and individual monthly targets, placing as one of the top 10 employees in the EMEA region.

PROJECTS

Efficient Filesharing server/webapp | *WebSockets api, TypeScript, Node.js, React*   ○
- Paired up with a friend to develop an application aiming to improve the speed of sharing large files on the internet.

Private Memories | *JavaScript, React, Firebase (OAuth, NoSQL), Netlify*   ○
- Having gained experience with React at Discover, developed a web app for sharing memorable photos with friends.

AI-assisted Generation of Artistic Images From Text | *Python, pyTorch, Streamlit, Google Cloud Platform*   ○
- As part of Bachelor's dissertation, implemented a backpropagation algorithm that generates art from text.
- Used state-of-art NLP models to summarise large amounts of text in order to create book chapter illustrations.

...and many other projects that I developed at various hackathons using technologies such as Android SDK, Flutter, GraphQL and AWS Amplify

TECHNICAL SKILLS

Languages: Java, JavaScript/TypeScript, SQL (Oracle), Python, Haskell, HTML, CSS
Frameworks/Libraries: React, Spring Boot, Angular, Node.js, JavaFX, JUnit, Mockito, pyTorch, NumPy, Matplotlib
Technologies: Git, Google Cloud Platform, Amazon AWS