Tymoteusz Suszczyński

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Learn more about me! tipex360.github.io/portfolio/

EDUCATION

University of Bristol
Computer Science MEng | 2:1 with Honours | Grad. 2022

A Levels
Computer Science **A** • Mathematics **A** • Chemistry **A**

GCSEs
11 GCSEs graded **A* - A**

TECHNICAL SKILLS

Languages & Tools
C • C++ • Go • Java • C# • SQL • Python • pytorch • TypeScript • React • HTML/CSS • Linux • OpenGL • AWS • docker • Git • Jira • CI/CD

Creative Skills
3D ArchViz / Rendering • Blender • Photoshop • After Effects

LANGUAGES

> English (fluent)
> Polish (native)

EVENTS & AWARDS

> Boeing x CSS Bristol Hackathon • **1st place** • Mar 2020

> CSS Bristol x UCL Gamejam • **Honourable mention** • Nov 2020

> Boeing x CSS Bristol Hackathon • Mar 2021

> Ten Tors 35 & 55-miles Expedition Gold • May 2015 & 2017

INTERESTS

> Rock Climbing
> Digital Art & Design
> The Great Outdoors
> Guitar

WORK EXPERIENCE

Terrafirma Creative, Perth (Freelancing, Remote)
Full-Stack Engineer & Consultant | Feb 2024 - Present
> AI-driven eCommerce store.
Next.JS • TypeScript • Node • Express • AWS • Docker • GraphQL

HashLeap, London (Contractor, Remote)
Front-End Engineer | Aug 2023 - Nov 2023
> Implemented full UI/UX redesign using React/NextJS.
> Unit, E2E and UI Snapshot testing using Jest/Cypress.
> Improved reponsiveness of the app by up to 1500ms by advising to and migrating the app to a Server-Side-Rendering Client-Side-Routing principle.
Next.JS • TypeScript • Prisma • Tailwind • Jest • Cypress

Flowbird Transport Intelligence, Poole
Software Engineer | Jun 2022 - Mar 2023
> Devloped a multi-threaded system following a microservices architecture. Inter-process communication achieved via REST/HTTP stack.
> Developed a hardware API for an embedded system using C++.
> Team leadership in an Agile environment, including sprint planning/review, scheduling and estimating team tasks.
> Identified and resolved exploits in the existing codebase. E.g. Top-up of an unlimited balance to the user's card with dirty write.
> Improved existing CI/CD pipelines to automate Unit Testing, Acceptance Testing, Deployment and Artifact Management using Jenkins and JFrog.
C# • SQL • C++ • Java • Python3 • Jenkins • Microservices • Embedded • Cucumber

University of Bristol
Graduate Teacher | Sep 2021 - Jun 2022
Teaching Assistant | Sep 2020 - Sep 2021
> Taught students about transistor logic and microcontroller programming in C/Micropython.
> Produced worksheets and exam materials for students.
> Lead Q&A sessions.

PROJECTS

Enhancing Realism of 3D images using Deep Learning
First-Class Thesis (Grade 74) • Training & Evaluating GANs/CNNs • Reverse Engineering • Web-Scraping • Synthetic Data Collection from Video-Games
C# • Python3 • pytorch • numpy • RenderDoc • selenium • BeautifulSoup

Multi-Tasking OS for Arm Cortex-A8 microcontroller
Low-level kernel development • IPC using Pipes and Semaphores • Drivers for PL111 LCD Display and PS/2 Input • Preemptive scheduler
C • Armv7-A Assembly

Scalable Fault-Tolerant Stream Processing in the Cloud
Load Balancing • Clustering • Containerisation • Dynamitc Worker Allocation
Python3 • RabbitMQ • AWS Boto3 API • docker • HAProxy