Nicholas Bentley

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PROFESSIONAL SUMMARY

Software Developer and Human-Computer Interaction Researcher working towards a thesis focused on the intersections of HCI and Digital Fabrication. Previously, I worked as a full-stack software developer for 4 years in the construction industry, where I worked to maintain and iterate industry critical CAD applications and develop multiple webapp projects from concept to delivery. I have specific interests in **Interface Design**, **UX**, **Accessibility**, **Optimisation**, and **Automation**. These interests have directed my focus within teams and projects; helping me to contribute to the creation of robust, maintainable products with high end-user satisfaction, backed by strong, cohesive teams.

SKILLS & PROFICIENCIES

I have experience with a broad range of tools, technologies, and workflows. I have worked both solo and within teams using these skills, and have taken leading roles on a number of projects and features incorporating them. I have taught the use of a variety of these in personal, professional, and academic contexts through mentoring, workshops, and presentations.

Software Development - Languages, Tools, Concepts

■ C# Azure/AWS Java Angular DevOps Selenium ■ .NET Core / Typescript Nuxt Linux ■ Git/Svn Databases Framework ■ HTML5 ■ Node.js Nix/NixOS CI/CD ■ SQL Python \blacksquare R Docker ■ Scrum TDD scss/css ■ MongoDB Design & Implementation Focuses ■ Human-Computer Interaction ■ User Experience ■ Interface Design Accessibility Efficiency ■ Robustness

I also have experience with a range of fabrication technologies, tools, and workflows.

EDUCATION

August	2022
Current	

University of Birmingham - PhD Computer Science

I am currently pursuing a Human-Computer Interaction & Digital Fabrication PhD. This has involved a significant amount of self-direction, skill development, networking, and collaborating with peers around the world using a range of technologies. I have published one paper at conference. As for programming, I have used Python for data decoding & encoding, as well as for complex geometric calculations and integration with CAD software APIs.

2014

University of Birmingham - MSci Computer Science - 1st Class Hons.

2018 I specialised in physical and digital interface design, and study of the intersection thereof.

PROFESSIONAL EXPERIENCE

August 2022 June 2024 August 2018

July 2022

University of Birmingham - Teaching Assistant

Alongside my PhD study, I have worked as a Teaching Assistant for two masters level modules.

MiTek Industries Ltd. - Software Developer

During my time at MiTek I worked on multiple highly successful projects.

I worked on an industry leading Construction CAD app built on C#/SQL to improve performance and add new features to meet the demands of customers tackling larger and more demanding projects.

I worked on a full-stack CAD webapp with a rapid turnaround from concept to delivery, using a C#/.NET/SQL backend and a TS/Angular5 frontend.

I also worked on a larger logistics web platform for a broad range of international customers with the same technology stack, including developing the early concept, and I ran workshops to assist our other international teams get up to speed with the technologies in use.

I worked within and with a number of international teams during my time at MiTek, and worked a lot on APIs for integration between the mentioned products and a few others. I also had a leading role in developing automated tests, as well as our containerisation and Azure CI/CD pipelines.