

Niall Craven

Full Stack Developer

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Education

MSc Computer Science

University of Bath 2024 - 2026 (Expected)

- Developed an Object Oriented banking system in a distributed team, using Scrum practices
- Created a spam filter using artificial neural networks in Python
- Distinction grades in all units with particularly strong coursework in Functional Programming, Databases and AI

BA Fine Art

Newcastle University 2010 - 2014

- Worked with Blender and Adobe Photoshop to create new media art
- Worked with Baltic Museum, Gateshead, in a digital archiving project, including methods for handling large image and video file formats in storage.

Work Experience

Lecturer - Department of Electronics

Bucheon University - Bucheon, South Korea Mar 2021 - Present

- Lead a number of classes including 'Data Skills for Engineers', 'English for Engineers' and others
- Maintained online learning environments for students to use distance learning resources
- Taught students to effectively use databases, SQL queries, and data pipelines in Python and Bash

Online Lecturer - English Language

Korea Cyber University - Seoul, South Korea Sep 2019 - Present

- Produced written, audio and video resources to teach effective English communication
- Managed students online grades and delivered personalised feedback and learning aims

Achievements

KSAAC Excellence Award

Korean Society of Augmentative and Alternative Communication 2020

Awarded for developing an emoticon set targeting youths with communication disabilities.

Poster Presentation

Digital Contents Society - Summer Conference 2025

Lead developer on research team proposing a chat simulation game to prevent online grooming among individuals with developmental disabilities.

Intro

Motivated developer with extensive experience in visual design and online education, looking to transition into full stack development.

Proficient in Python, Javascript and Java (Spring). Wealth of experience designing and developing web applications.

Skills

Programming Languages	Javascript, Typescript, Python, Java, SQL
Back-end Development	REST APIs, node.js, Spring Boot, OAuth
Database Management	PostgreSQL, MySQL, MongoDB, Prisma
Front-end Development	React, Tanstack-Query, Svelte, HTML, CSS
Tools & Environment	Bash, Docker, Git, TDD, Agile methodologies
Languages	English, Korean

Profile

Communication:
10 years experience in education and visual design has given me the skills to clearly and efficiently communicate and convey complex ideas, abstract concepts and customers' visions.

Curiosity:
The ability to adapt and thrive in various different domains, and to continuously improve my skills comes from a deep desire to learn new skills and hear new ideas.

Creativity:
A unique perspective on problems and ability to find creative solutions is something I bring into software design and development.

Craftsmanship:
A love of programming that goes back to childhood: while I get excited by new fields and opportunities, I prioritise strong fundamental knowledge of a core systems and technologies.