Jordan **Buckley**

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https://github.com/JordanBuckleyGit

Professional Experience

Webmaster

UCC ACM Student Chapter   September 2024 – Current

· Rebuilt and optimized the chapter website, improving load speeds by 55% and uptime to 99.9%.

· Designed and deployed scalable server infrastructure; documented architecture for future scalability.

· Managed sponsor visibility for hackathons with F5**,** Cadence**,** Keelvar**,** Insight**,** and NetApp, increasing engagement by 40%.

· Automated deployments via CI/CD, cutting update time by 70%.Link - https://jordanbuckleygit.github.io/ACM-Server/

Google BGN Hackathon Winner

Google, Dublin   October 2025 – October 2025

SolarMatch | *Next.js. Typescript, Tailwind CSS, FastAPI, Python, Docker, PostgresSQL, Firebase. GCP*

· Won 1st place for developing *SolarMatch*, Ireland's first solar assessment and cooperative platform.

· Trained a Gemini chatbot on SEAI data for automated grant eligibility, reducing user research time by 70%.

· Engineered financial models in Python/FastAPI with ±5% ROI accuracy and automated cost estimation.

· Designed a B2B/B2G revenue model leveraging affiliate links with solar providers and government incentives for referrals.

· Built scalable APIs integrating Gemini, SolarAPI, and Google Maps, achieving 30% higher yield accuracy via satellite heatmap modelling. Link - https://github.com/JordanBuckleyGit/SolarMatch

IT/System Administration Intern

Cork College Of FET   January 2024 – February 2024

· Diagnosed and resolved hardware issues across 150+ devices, reducing downtime by 40%.

· Developed automated scripts for Windows 10 devices to enhance operational efficiency.

· Deployed Windows to 100% of campus devices using WDS and MDT, ensuring smooth integration with zero errors..

· Developed PowerShell and C# scripts to automate system maintenance, cutting manual tasks by 60%.

Education

University College Cork - Computer Science (CK401)

Sept 2024- Sept 2028

Grade - 1.1 First Class Honors (Among the top performers in the year)

Core Modules (2nd Year) :

·Algorithms & Data Structures I.
·Intermediate Programming (python/java).
·Cloud Infrastructure & Services.
·Information Storage & Management I.
·Computer Architecture.
·Logic Design.

Projects

Movie DNA | *Python, Flask, Jinja, CSS, JavaScript, SQLite*

Built a Flask-based web app that provides personalized movie recommendations using collaborative filtering. Features include user authentication, responsive UI, and a custom recommendation engine.

Link - https://cs1.ucc.ie/~jb42/cgi-bin/ca1/run.py

My Portfolio | *Tailwind CSS, React.js,* JavaScript, *HTML*

Developed a responsive portfolio website using React.js, Tailwind CSS, JavaScript, and HTML to showcase skills, education, achievements, volunteering, and projects with a focus on clean design and UX. Implemented smooth animations and motion effects with React to create an engaging interface. Used reusable components for maintainability and deployed the site via GitHub Pages, managing version control with Git. Link - https://jordanbuckleygit.github.io/my-portfolio/

Black-Scholes Option Pricing Model | Python, Streamlit

Built an interactive Streamlit web app to visualize and analyze European call and put option pricing using the Black-Scholes formula. Features include dynamic price calculations, payoff and P&L charts, heatmaps based on spot price and volatility, and downloadable PDF reports summarizing results. Link - https://black-scholes-opt-price.streamlit.app/

Skills

Languages: *Python, C++, Java, HTML/CSS, SQL, Javascript, Bash, Typescript,* PostgresSQL

Frameworks: React.js, Flask, SQLite, Node.js, Tailwind CSS, Streamlit, FastAPI, Next.js

Libraries: Pandas, NumPy, Scipy, Seaborn, Matplotlib, TKinter, Jinja, React Router, JSON

Interest: Competitive Programming, Guitar, Chess, Gym and Football.