

# Gabriel Huddy

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*Software Engineer with 2.5 years of professional experience across the stack*

# Work Experience

<b>Genius Sports</b> <i>Software Engineer</i>	27th May 2025 - Present
<ul style="list-style-type: none"><li>Practiced Cloud-native software development in C#, .NET Framework and .NET 8 using Docker, Kubernetes, queues such as RabbitMQ, and caches such as ValKey (fork of Redis).</li><li>Employed monitoring tools such as Grafana and CloudWatch to monitor systems, and used logging to diagnose issues through Grafana.</li><li>Practiced Infrastructure as Code, designing Terraform/Terragrunt modules to deploy AWS infrastructure in a transparent and maintainable way.</li><li>Created and extended CI/CD pipelines using GitLab CI and following security best-practices.</li></ul>	
<b>Xceptor</b> <i>Software Engineer</i>	5th August 2024 - 16th May 2025
<b>Xceptor</b> <i>Placement Software Engineer</i>	4th July 2022 - end of June 2023
<ul style="list-style-type: none"><li>Worked on a cross-functional Agile team, and delivered production-ready features using C#/.NET Framework, Angular, Typescript/Javascript and SQL.</li><li>Delivered core features for a frontend modernisation initiative, building re-usable Angular components and establishing usage patterns across the team.</li><li>Major contributions to reducing technical debt. Proactively volunteered to complete enabler stories to re-architect legacy code, where I improved maintainability through rigorous application of software design patterns.</li><li>Embodyed a quality-first mindset, fully unit-testing solutions in NUnit and Jest and advocating for improved test-coverage during the code review process.</li><li>Participated in an initiative to share learnings with colleagues, both presenting and participating in seminars on technical topics.</li></ul>	

## Education

<b>University of Birmingham</b> <i>Bachelor of Science, Computer Science with an Industrial Year</i>	2020 - 2024
<ul style="list-style-type: none"><li>• Graduated with a 2:1</li><li>• Engaged with a broad Computer Science curriculum covering subjects such as software engineering, artificial intelligence, functional programming, cyber security, and dependable and distributed systems.</li><li>• Covered technologies including Java, C, C++, Haskell, HTML, SQL, Linux, Bash, Wireshark Git</li><li>• Participated in GDS (Games Development Society) and AFNOM (ethical hacking society).</li></ul>	
<b>University College London</b> <i>Diploma of Higher Education, Biochemistry</i>	2018 - 2020
<ul style="list-style-type: none"><li>• Computational biology module covering statistical analysis using the R programming language.</li><li>• Workshops on Bash, Python and bioinformatics databases.</li></ul>	
<b>A Levels</b> <i>Biology A*, Chemistry A, Physics A, Maths A</i>	2016 - 2018
<b>GCSEs / ECDL</b> <i>Maths A*, English Literature A*, Science A*, Additional Science A*, Further Additional Science A*, Geography A*, History A*, French A*, Resistant Materials A*, English Language A, General Studies B, BCS Level 2 ECDL Distinction*</i>	2013 - 2016

# Technical Skills

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- Professional experience with backend technologies including C# and .NET. Further personal experience with Node.js and Express.js.
- Professional experience with frontend technologies including Angular, Javascript, Typescript, HTML, and CSS. Further personal experience with React.
- Professional experience with relational databases including PostgreSQL and Microsoft SQL Server, and NoSQL databases such as DynamoDB. Further personal experience with NoSQL databases such as MongoDB.
- Professional experience with cloud-native technologies including microservices, AWS, EKS, ECS, IAM, Athena, CloudWatch, Docker, Kubernetes, IaC, Terraform, Terragrunt, ValKey (fork of Redis), and RabbitMQ. Further personal experience with S3 and DigitalOcean.
- Professional experience configuring CI/CD pipelines using GitLab CI, YAML, and Bash scripting. Further personal experience using GitHub CI.
- Proficient in Linux, Bash, version control (Git), SSH, Vim, and other command line tools.
- Academic experience with C, C++, Haskell, Java, Python, and Linux kernel module programming.
- Strong grounding in networking fundamentals including HTTP, SSL, REST APIs, TCP/IP, DNS, and NAT.
- Proficient in multiple programming paradigms including object-oriented programming and functional programming, with a strong grounding in design patterns and SOLID/DRY principles.
- Professional experience with Agile methodologies including Scrum and Kanban.

# Projects

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## Independent Game Development

2008 - Present

*Ongoing lifelong hobby in my free time*

- Game development in the Godot Engine using GDScript (Python-like language) and using custom GitHub CI workflows.
- Published multiple free web games with thousands of impressions.
- Demonstrated time-management skills by participating in Ludum Dare (Jam), a competition to develop and publish a complete game in under 72 hours. Received highly positive feedback and placed in the top 15% of entries.

## OOP Dungeoneer

2023 - 2024

*Final Year Project at the University of Birmingham*

- Implemented a visual programming language and editor in the Godot Engine, with an interpreter in C#.
- Collected feedback to evaluate effectiveness as an educational tool and presented findings in an academic report.

## resourced.me

2022

*Web Application developed for Team Project module at the University of Birmingham*

- Worked in a 6-student team using Agile methodologies including Scrum, user stories and pair programming.
- Delivered vertical slices for a full-stack web application using the MERN stack (MongoDB, Express.js, React and Node.js) with content sharing and user authentication.
- Configured a CI/CD pipeline to deploy the latest changes as a Docker instance hosted on a DigitalOcean droplet.