

DARREN SILLS

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Software developer focused on building maintainable, well-architected systems. Experienced across full-stack web development, systems programming, and cloud service integration with a strong foundation in software engineering principles.

SKILLS

Languages: C#, Java, Python, TypeScript, JavaScript, SQL, HTML5/CSS3

Frameworks & Platforms: .NET, ASP.NET Core, React, Node.js, Express, Unity

Databases: Firebase (Firestore, Realtime Database), MongoDB, MySQL, PostgreSQL

Cloud & DevOps: AWS (S3, Lambda, EC2), Docker, Git, GitHub Actions, CI/CD Pipelines, Vercel, Netlify

APIs & Integration: REST APIs, GraphQL, WebSockets, Third-Party API Integration, JSON, Authentication (JWT, OAuth)

Development Practices: Agile/Scrum, Version Control (Git), Unit Testing, Code Review, Technical Documentation, Debugging

Architecture & Design: Object-Oriented Programming, Design Patterns, Modular System Design, State Management, MVC/MVVM, Microservices Concepts

PROJECTS

Unity Systems-Based RPG

Tech: C#, Unity, Blender

- Architected modular gameplay systems designed for reuse across projects
- Built custom developer tooling to streamline content creation
- Implemented complex game logic and state management
- Produced full technical documentation and public project site

Film Discovery Web Application

Tech: React, Firebase, TypeScript, REST APIs

- Engineered a full-stack film discovery platform integrating third-party REST APIs
- Designed secure authentication and user management using Firebase
- Developed responsive, state-driven UI components for performant data rendering
- Structured asynchronous data flows to support real-time content updates

EDUCATION

- **BSc (Hons) in Computer Science** (*First Class Honours*)

Southeast Technological University | Waterford

- **Study Abroad**

Shibaura Institute of Technology | Tokyo

ADDITIONAL

Conversational Japanese. Top-ranked competitive online player with tournament participation, demonstrating strong teamwork and decision-making skills. PC builder enthusiast. Frequent participant in open-source video game modding and decompilation projects.