

Aidan Fahey

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Work Experience

Web Surfing Studios - Junior Software Engineer (Remote)

May 2025 - Present

- WSEmailCatcher API & React App
 - **Lead and sole developer** for a C# / .NET REST API and React App used to manage Web Surfing Studios email database.
 - Created endpoints to allow users to **list and query for all emails** sent by WSEmailSender and **delete unwanted entries**.
 - Designed a **dynamic and user friendly interface using React and Redux** to access the API endpoints.
 - Utilized Entity Framework & migrations to **manage remote AWS RDS MySQL instances**.
 - Constructed CI & CD Azure DevOps pipelines which **connected Git to AWS Elastic Beanstalk applications through Dev, Test, and Prod environments**.
- WSEmailSender API
 - Shipped **12 features to production** deployment.
 - Developed a C# / .NET REST API to centralize and manage all email communications across Web Surfing Studios' web applications, **reducing redundancy by providing a reusable service**.
 - Utilized API Gateway, AWS Lambda (serverless) apps, AWS SQS, AWS RDS, AWS SES, and an AWS Beanstalk instance to **provide horizontally scaled processing**.
 - Implemented a partial batch response and global exception handler to **pass successful messages and retain failed messages in the queue**.
 - Created MySQL database and C# library utilizing MySqlConnection for storing/updating email data as they are processed.
 - Automated testing functionality using NUnit. Developed unit tests and **utilized Moq to handle integration testing against core injected dependencies**.
 - **Diagnosed overridden status code issue** and altered API post method to return proper status code.
- Web Surfing Studios Candidate Portal (<https://apply.websurfingstudios.com>)
 - Shipped **5 features to production** deployment.
 - Created a reusable C# .NET email template for candidate rejections, integrated into an existing background service and processed via AWS Simple Email Service, and built a front-end workflow to trigger rejections, significantly **improving applicant review efficiency and enabling automated delivery of up to 400 emails per month**.
 - Implemented dynamic filtering for an internal candidate portal using AJAX and jQuery, integrating with a C# .NET Framework background to persist filter states and **enhance user experience and efficiency**.
 - Implemented dynamic warning labels for an internal application view using Razor to highlight non-default application answers, **improving data visibility**.
 - Located and fixed login errors caused by database, navbar, and secrets issues, allowing users to register and log in.
 - Utilized latest industry standards of feature flagging all code in production with **AWS AppConfig and logging all data to New Relic for debugging**.

Education

College of the Holy Cross (Worcester, MA)

August 2021 - May 2025

- B.A. Computer Science & Religious Studies | Dean's List
 - **Coursework:** Databases, Data Mining, Theory of Computation

Skills

- Languages: C# / .NET (Main), HTML/CSS, TypeScript, JavaScript, Python, C/C++, Java, Swift, PowerShell, YAML
- Frameworks: ASP.NET Core, ASP.NET MVC, Windows Forms (C#), Bootstrap, FastAPI, Express
- Libraries: React, React Native (Expo), Redux, jQuery, NumPy, Pandas, Scikit-learn, Matplotlib, MapKit, CoreLocation
- Version Control Systems: Git, GitHub, GitLab, Gitea
- Databases: Microsoft SQL, MySQL, PostgreSQL
- Agile Methodology & Azure DevOps
- CI/CD: DevOps Build & Release Pipelines
- Misc: Node.js, Entity Framework, Windows Installers, Windows Server & IIS, Docker, Prisma
- AWS: Elastic Beanstalk, Lightsail, AppConfig, Secrets Manager, SQS, SES, RDS, Lambda, CloudWatch
- Spoken Language: English (Native)

Projects

Cnectd (<https://github.com/afahey03/Cnectd>)

- Created a full-stack React Native chat application built with Expo and a Node.js/Express backend. It allows users to register with a unique username, manage friends, and chat via direct messages or groups. DB done with Postgres, Docker, and Prisma.

Mabel (<https://github.com/afahey03/Mabel>)

- An object oriented programming language named after my Chow Chow, complete with a parser, lexer, compiler, and virtual machine written in Java to allow users to write and compile programs. Support for inheritance, recursion, etc.

WSS Hackathon Help Bot

- Engineered an AI powered Help Bot using Node.js, C# / .NET, and AWS Lambda during a company-wide hackathon to allow users to run a command in a dedicated Web Surfing Studios Slack channel to ask commonly asked programming questions.