Nathaniel Wilkins

code-null.com/about

nate-wilkins@code-null.com
(585) 441-4337

PROGRAMMING SKILLS

Languages: C#, Python, TypeScript, JavaScript
Development: SW Design Patterns, SOLID Principles

Technologies: Azure, Angular, ReactJS, Docker

EXPERIENCE

StyleSeat *Software Engineer* — 2022-2023

[web] **StyleSeat**: Online marketplace for beauty wellness professionals and clients.

- Created **SEO** proposals to make the site faster and easier to get to.
- Implemented various referal program features in **javascript** from **Figma**.
- Worked with **celery** to fire off various email and push notifications.
- Worked on **SEO** and sitemap features.

Data Theorem *Software Engineer* — 2018-2022

[web] **SecureTheorem**: A continuous automated security service that finds vulnerabilities and data privacy issues within applications.

- Developed services to discover APIs and cloud resources in **Azure** environments.
- Profiled and fixed **ReactJS** page rendering from **2.5s to 200ms** by removing unnecessary rerenders.
- Implemented compliance features to help customers identify applications that could be incompliant.
- Developed a dashboard using **ReactJS** to handle rendering over **200 mobile applications**.

[web] **App Search**: Mobile app security search database that allowed customers to get a quick security assessment of any mobile app on the market.

- Streamlined searching algorithm to tackle major user experience flaws.
- Evaluated the impact of developed features using **pandas** and **seaborn**.
- Implemented various features using **python** for the backend and **TypeScript** for the frontend.
- Demoed new and existing functionality to potential customers.

Liazon *Software Engineer* — 2015-2018

[web] **BrightChoices**: Online private benefits exchange for large and small businesses worldwide.

- Removed **26 hours** of daily department development costs by developing an easy-to-use, consistent, reproducible build pipeline written in **PowerShell**.
- Utilized **NServiceBus** and **MSMQ** to handle core business operations.
- Architected platform infrastructure used to drive a majority of the application services.
- Lead major testing efforts to get monolithic legacy code under test.
- Held **Git** lessons and collaborated with operations to migrate the **TFS** repository of 18,000 files to **Git**.

[web] **Employee Search**: Internal tool to manage employees on the BrightChoices platform.

- Reduced employee search result load times from **16s to 48ms**.
- Developed the application with **MSMQ** event hooks, **WebAPI**, and **ReactJS**.
- Implemented business functionality using advanced **ElasticSearch** functionality including sharding, typeahead, and custom tokenizers.

[web] **Insurance Inventory**: Administration application used to manage insurance product configurations.

- Created **UML** diagrams to communicated with key stakeholders to manage business expectations.
- Implemented back-end functionality on top of **Azure Service Fabric** with local bindings using **TopShelf**.
- Implemented **C# RESTful** APIs using **WebAPI** and **Dapper**.

[native] **Ocelot Test Runner**: Developed an **Electron** application to run **SpecFlow** integration.

[native] **BrightChoices VR**: "Online" private benefits exchange for large and small businesses in virtual reality!

- Developed a rudimentary shopping experience in **Virtual Reality** with **Unity** and the **HTC Vive**.
- Collaborated with two other team members to build a working prototype during a two-day hackathon.

Carestream Health *Software Contractor* 2013-2015

[web/native] **NextGen Platform**: Rewrite of the core software platform to support the next generation of X-Ray Solutions.

- Served as the leading technical specialist for **AngularJS** and other web technologies.
- Developed **il18n** system with **angular-translate**, **CLDR**, and **MomentJS**.
- Developed a build and deployment infrastructure using **npm** and **NodeJS** integrated into **MSBuild**.
- Utilized **C#**, **MassTransit**, and **SignalR** to interface the web application directly with modular hardware.
- Developed reusable configuration workflows for products on the platform.

[web] **Translations Manager**: Localization workflow application for managing the creation, maintenance, and processing of translations for all company products.

- Soley developed a standalone application in **C#** from the ground up to decrease translation lead time by months to weeks.
- Managed localizations for 25 languages and over 125,000 translations.
- Maintained system security using an ACL built with **LINQ Expression Trees**.
- Created exporters for various clients using (**XLIFF**, **XML**, **JSON**, and **CSV**)
- Implemented full-text search functionality using **SQL** and **NHibernate**.
- Configured **IIS Web Deploy** to deploy to a local intranet. Later setup on **Jenkins CI** for automated deployments.

[native] **DRX Detector Applications**: Sample software to provide partnered vendors the ability to create third party applications to integrate with the DRX Detector.

- Identified and refactored over 10,000 lines of code.
- Utilized **.NET interop** to communicate with the **C/C++** DRX detector SDK.

PROJECTS

[web] **eslint-plugin-bdd**: Implemented an **ESLint** plugin for linting **BDD** specs. 1200 downloads weekly. Used in the official JetBrains config.

[web] **eslint-plugin-jsort**: Implemented an **ESLint** plugin for sorting imports.

[web] **browser-game-engine**: Implemented an **ECS** game engine in **TypeScript**.

[web] **code-null.com**: Developed a personal website using **ReactJS**.

EDUCATION AND CERTIFICATIONS

Kanban Training	*2017*
MCSD Programming in C#	*2015*
Monroe Community College *Rochester, NY*	*2013-2014*

OTHER

Placed 3rd in the Synacor Hackathon *Buffalo, NY*	*2017*
Attended Abstractions.io conference *Pittsburgh, PA*	*2017*
Attended CodeMash conferences (3x) *Sandusky, OH*	*2016-2021*