Jonathan Tyson

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Professional Experience

NextGen Healthcare   **Software Engineer and Intern**
Buckhead, GA   *3/2015-9/2018*

- Work across a variety of technology stacks and systems, including C# and VB.NET back-ends, ASP.NET, Javascript, Telerik, and jQuery front-ends; MySQL and TSQL; JSON, XML, CSV and flat files; AIX and Windows Server; Powershell, Python, and Perl
- Independently develop many lightweight WinForms and WPF utilities that provide features or bug workarounds for clients
- Write unit and integration tests, documentation, and deployment and automation scripts
- Adeptly balance feature requests and bug fixes with system, code, and process improvements
- Mentor fellow coworkers and encourage the adoption of skills like logging, library usage, concurrency, functional programming, and build and deployment automation

Accomplishments

- Refactored a bug- and race-condition riddled program that ran other programs into a streamlined highly-concurrent fault-tolerant application runner while halving the LOC count and greatly reducing issues
- Combined seven programs with high defect rates that together formed a single business process handling $220k a month into two performant programs that have not had an error or failure in over one year
- Championed the addition of open-source libraries like Dapper, moment.js, and Nlog

Club Scientific Summer Camp   **Camp Staff**
Atlanta, GA   *6/2013-8/2013*

- Taught a science-based curriculum including video game development to kids ages 4-14

Education

Senior at Georgia Institute of Technology, Computer Science
Southern Polytechnic State University, Computer Science

Languages

F#, Typescript, C# (98th percentile in Pluralsight), Javascript, Haskell, Powershell, (My|T|Postgre)SQL, Python, CSS, HTML

Technologies

Windows, Linux, Webpack, MSBuild, IIS, React, Sass, Bootstrap, ASP.NET, .NET Core, jQuery

Skills

Database Management and Design, Debugging in Chrome/Firefox/IE, Database and Code Performance Tuning, Security Best Practices, ReactiveX, Parallel and Asynchronous Programming

Inspiration

Coding Horror, Joel Spolsky, The Daily WTF, Mythical Man-Month, C# in Depth, F# for Fun and Profit, Advanced Windowing Functions in T-SQL