

Jason Callahan

Designer, Developer, Architect

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About

I am a full stack software engineer and solutions architect with an entrepreneurial spirit and a passion for great design. I excel in my abilities to quickly learn and understand complex systems and processes, identify value opportunities, architect solutions, and design and build familiar and intuitive user experiences. I can work independently or as a member or leader of a team to produce high quality, durable, scaleable, resilient, reliable, and performant software solutions.

Experienced

Skanska, USA *Charlotte, NC 2017 - Present*
Senior Full Stack Developer

Consistently meet deadlines for multiple waterfall and agile projects with duties consisting of architecting, estimating, planning, developing, testing, deployment and maintenance of enterprise web applications. Reliably advise leadership on recommended architectures and technologies.

Lead the initiative to modernize the client side development technologies moving the team from AngularJS and bootstrap to progressive web apps built using npm, React and Material-UI components.

Recruited by the data warehouse team to lead the design and development of a serverless architecture in Azure for getting vendor cloud api-only data in near-real-time to the data lake.

Confidently serve on the Azure governance team to help define Azure policies, outline resource request processes, and build secure development environments.

Successfully architected and developed a hybrid Azure microservices and on-prem solution for near-real-time updates from Global HCM to an on-prem Active Directory and database. This solution pieced together Azure Data Factory, Azure Functions, Azure Data Lake, Azure Event Grid, Azure Webhooks, Azure API Manager and on-prem external facing servers and apis.

Skilled

Languages

JavaScript, C#, HTML, CSS, SQL, Python, UML, PHP, C++, HLSL, AS3, DAX, Java, C, Basic, Ladder Logic

Frameworks & Libraries

React, Angular JS, .Net Core, Entity Framework, Webpack, Workbox, GSAP, XNA/Mono, Node JS, Material-UI, Bootstrap, Pandas, Matplotlib, OpenCV, TensorFlow, MS Bot, Selenium, Beautiful Soup

Technologies

Azure, MS TFS/Azure DevOps, Git, npm, Progressive Web Apps, WAMP, LAMP, IIS, Power BI, REST, SOAP

Educated

I am self-educated for the most part; if I'm interested in something, I dig in.

Completed Object Oriented Programming Certification course from CPCC, 2002.

Studied core curriculum with a focus on art at CCC&TI, 1997 – 2000.

Graduated Mount Pleasant High School with the academic award in Chemistry.

More Experience

ISD Games *Charlotte, NC 2012 - 2016*

Software Engineer, Director of Game Development

Promoted to Director of Game Development and played a key role from inception to release for more than 20 shippable GLI certified games.

Improved operational productivity by engineering and developing an automated art pipeline which reduced weeks long manual tasks down to hours.

Optimized game performance by engineering and developing a view object library to auto-optimize drawing to the screen which increased game performance up to 6 times.

Freelance *Charlotte, NC 2016 - 2017, 2010 - 2013*

Software Engineer, Graphic Designer, Sales & Marketing

Acquired high profile clientele including Sabor Latin Street Grill.

Successfully implemented integration with client's POS system and custom web application to deliver a tailored user experience to browse, book, and purchase online.

Proposed and was awarded the contract for the Sugar Mountain Tourism Development Association's website by presenting to the board in a public forum beating out two larger, and more experienced local competitors.

ElectronX, LLC *Nags Head, Charlotte, NC 2005 - 2013*

Owner/Operator, Systems Engineer, Installation Technician, Sales & Marketing

Designed, proposed, installed and managed complex commercial, residential and industrial audio\video, automation, security and surveillance systems projects ranging to over \$100,000.

Reliably designed, installed and maintained systems for some of Charlotte's most prominent companies such as Hisho Sushi, Keller Williams Realty, ATD, Salon 8, Label Night Club and Therapy Cafe.

More Skills

Concepts

OOP, Functional Programming, UI, UX, Db Schema Design, MVC, REST, SOAP, Design Patterns, Graphic Design, Typography, UML, Computer Vision, Machine Learning, Circuit Theory, Combinatorics, SDLC, Agile

Software

Visual Studio/VS Code, SSMS, SSRS, Power BI, Photoshop, Illustrator, Fiddler, Wireshark, Adobe XD, Lightroom, InDesign, Premiere Pro, After Effects, Unity, 3D Studio Max

APIs

Box, Forge, ServiceNow, Azure, Azure DevOps, Global HCM, Procore, MS Cognitive Services, SharePoint, Mindbody, Google Drive, Google Maps, Xola

Areas of Interest

Computer Vision and AI

I recently completed a proof of concept and did a presentation on the topic of computer vision and AI and how it can recognize safety hazards on the job site, log the incidents and alert the appropriate personnel.

Data Science

Data holds many secrets. I am very much intrigued in this discipline and have been building out my skill sets for the past few years. I've learned python and pandas and have been working my way through TensorFlow and Keras training.

Augmented Reality

I love the idea of virtually superimposing data and digital artifacts over our world. I'm currently working on a proof of concept using Unity and the idea of persistent AR to place a digital 3D model of a building on a project site at scale.

Robotics

I'm currently on version 3 of a 4-wheeled, Raspberry Pi controlled robot. I would love to talk more about it.

Online Portfolio

You can see some of my work online @ <https://JasonCallahan.me>