ABHAY RAJAN

Austin, TX, abhayrajan929@gmail.com, 814-360-0230 <u>linkedin.com/in/abhay-rajan</u> Work Authorization: Green Card

PRINCIPAL SOFTWARE ENGINEER

Full stack developer with 12+ years of software development experience on the JavaScript and .NET stacks. Wrote, shipped and owned several frontend and backend features for SaaS, Web and Desktop products. Also reviewed code, gave demos at company summits and symposiums, provided engineering support for customer issues and mentored new hires.

TECHNICAL SKILLS

Languages: JavaScript, C#, C++, HTML, CSS

Frameworks: Node.js, AngularJS, Express, Bootstrap, .NET, WPF **Databases:** SQL Server, MySQL, Couch NoSQL, ElasticSearch

Cloud: AWS – EC2, RDS; Azure – VMs, IoT Hub

Other: Kibana, Fluentd, Docker, Git/Bitbucket, TFS, JIRA, Confluence, Balsamiq

EDUCATION

University of Illinois at Chicago, Chicago, IL

M.S. Electrical and Computer Engineering - Thesis in Machine Vision & Image Processing

Harvard University, Cambridge, MA

Graduate level courses at the Extension school – Building Mobile apps, ASP.NET apps

PROFESSIONAL EXPERIENCE

JOHNSON CONTROLS (formerly Tyco), Austin, TX

2007-Present

Principal Software Engineer

Responsible for writing frontend and backend features for a range of software products

- Designed, coded and shipped 10+ features targeting the JavaScript and .NET stacks. Met all delivery deadlines. Followed Agile processes.
- Resolved issues at customer sites and trade shows which contributed to customer retention and a better product experience.
- Picked as a representative of the R&D team to tour customer sites, gather feedback and share it with management.
- Nominated to the Architecture team to evaluate customer feedback and write proposals to improve product usability and performance.
- Successfully collaborated with global teams in the UK, China and India to integrate their products and features into the core platform.
- Selected to attend conferences; Shared learning and best practices with the development teams.

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Major features delivered

Reporting and Data Visualization

 Data Intelligence (DI) as a Service – Wrote features for a DI SaaS app that visualized sensor data and was deployed on AWS. Stack: AngularJS, Node.js, MySQL

- Video Analytics Reports Wrote a report builder for a web app that created scheduled reports based on video intelligence data. Stack: AngularJS, Node.js, CouchDb
- Journal Data Visualizer Wrote a data visualizer for a desktop app that visualized Journal,
 Video and Point of Sale (POS) data. Stack: C#, WPF, SQL Server
- BI Prototype Wrote a Reporting as a Service prototype with Tableau and Microsoft Azure

Health Monitoring, Event Management, Video Search and Retrieval

- Health Monitoring Dashboard Wrote the backend engine and the frontend dashboard to display health alarms from security devices. Stack: C#, WPF, SQL Server
- Event Monitor Wrote a web event monitor to retrieve and display events from the application server using websockets. Stack: AngularJS, Node.js, SockJS
- Video Search Wrote a web interface to search for video clips. Stack: AngularJS, Node.js

Diagnostics, Embedded Web

- Centralized Log Management Wrote a log aggregator to centralize app server diagnostics logs in ElasticSearch. Stack: C#, Fluentd, ElasticSearch, Kibana, Docker
- Startup Wizard Wrote a startup wizard that was part of the Linux firmware for an integrated video & access control appliance. Stack: AngularJS, Node.js

TRIDENT TEK (acquired by Tyco), Germantown, MD

2007

Senior Software Engineer

- Wrote integrations in C# for the company's video management product
- Wrote a Video Player in C# using open source video libraries

VIDEOMINING INC, State College, PA

2005-2007

Research Engineer

Responsible for researching solutions and writing software for vision based computer interfaces

- Wrote algorithms in C++ for head pose estimation, head tracking and face detection
- Collaborated with Penn State researchers to develop interfaces for people with MS

ADDITIONAL ACCOMPLISHMENTS

Awards for Excellence and Teamwork at Tyco, featured twice in the company newsletter for innovation and collaboration

Patent (Published) - System and Method for Video/Audio and Event Dispatch Using Positioning System http://google.com/patents/US20150049190?cl=en

.NET certification – Application Development Foundation