

# Perry Spyropoulos

Technical Lead · Senior Software Engineer · Full-Stack Developer

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## SUMMARY

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Technical lead and senior software engineer with 15+ years of full-stack experience, delivering production systems for federal and commercial clients including the VA, FDA, and NIH at Booz Allen Hamilton. Active Secret clearance. Deep expertise across the full stack: modern React ecosystems, GraphQL and REST APIs, cloud-native data pipelines, Kafka stream apps, and OpenSearch. Early adopter and advocate of agentic AI development practices.

## EXPERIENCE

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**Lead Associate · Technical Lead / Senior Lead Technologist** November 2016 – Present  
*Booz Allen Hamilton · Bethlehem, PA (formerly Charleston, SC)*

### VA Work Queue Modernization (2021–Present)

- Technical lead for a large-scale VA initiative to replace legacy claims processing systems and streamline how VA staff manage and route veteran service requests, directly overseeing three developers across the full delivery lifecycle: architecture, code review, sprint planning, and production deployments.
- Designed and built a React micro-frontend from the ground up using single-spa architecture, Redux, Apollo Client, and the VA's Benefits Integration Platform (BIP) UI component library.
- Designed and built a GraphQL interface API backed by OpenSearch, enabling complex query execution against large-scale VA work queue data — improving routing efficiency and claims processing visibility for VA staff nationwide.
- Championed team-wide adoption of agentic AI-assisted development, integrating GitHub Copilot to measurably improve developer velocity and code quality.
- Serve as Career Manager for four direct reports, conducting performance reviews, setting development goals, and guiding long-term growth.

*Stack: React, single-spa, Redux, Apollo Client, GraphQL, OpenSearch, Apache Kafka, Node.js, GitHub Copilot*

### Opioids Data Warehouse (ODW) | FDA (2019–2021)

- Served as UI Team Lead, working with data scientists and engineers to develop a custom data warehouse web application for FDA opioid research. Designed UI features for complex cross-source queries, result visualization, and long-running multi-day analyses, enabling researchers to efficiently access and visualize critical data to accelerate insights and support impactful opioid research.

*Stack: React, Java Spring, Micro-service Architecture, PostgreSQL, Elasticsearch*

### Dark Labs | Red/Blue Team Intelligence Hub (2018–2019)

- Frontend engineer building a React webapp serving as a centralized information and collaboration hub between Red and Blue cybersecurity teams.

*Stack: React, Redux, Thunk, Axios, Async/Await, ES6+*

### NIH Insights | Patient Survey & Video Submission App (2017–2018)

- Swift iOS developer for an iPhone app enabling patients to complete surveys and upload videos to NIH for health outcome analysis.

*Stack: Swift, PromiseKit, Alamofire, AVFoundation*

### SecureGive | Multi-Platform Donation Platform (2016–2018)

- Started as full-stack developer, promoted to Tech Lead mid-2018, building a secure donation platform for churches and nonprofits across web, iOS, Android, and kiosk.
- Delivered a RESTful API, Admin CMS webapp, customer donation webapp, Windows kiosk, iPad kiosk, Android app, and iPhone app.

*Stack: React, Redux, React Native, Scala, Akka HTTP, Postgres, AWS (EC2, RDS, S3), Swift, CircleCI*

## Frontend Developer

March 2016 – November 2016

*Qonceptual LLC · Charleston, SC*

- Frontend engineer on multiple commercial products: PinScout, BATO Dashboard, Strongforce Dashboard, Evervest, and MobilePBX.

*Stack: Angular 1.5 & 2, Ruby on Rails, SailsJS, GoJS, ES6, SASS, LESS*

## Software Developer

June 2011 – March 2016

*SPARC LLC · Charleston, SC*

- Full-stack engineer on VA NWQ (National Work Queue), an early VA claims routing and workload management system — an early chapter in the same VA work queue mission carried forward to the present day.
- Full-stack engineer on VA VBMS Core 2, a benefits management system, and commercial projects including STEM Premier and SuitedTo/Prepado.
- Led UX design and client interaction including user workflow design, wireframing, and prototyping.

*Stack: Java Spring MVC, Oracle DB, AngularJS, jQuery, Java Play, MongoDB, Node.js, Bootstrap*

## Trader / Modeler Intern

May 2010 – August 2010

*ATD · Charleston, SC*

- Analyzed emerging trends for high-throughput automated trading; built a Perl-based stock similarity tool using adjustable metric weighting.

## Teaching Assistant

January 2009 – May 2010

*College of Charleston · Charleston, SC*

- TA for introductory programming courses over three semesters. Led lab sessions, graded assignments, and tutored students. Languages: Python, Java.

## Bioinformatics Intern

May 2009 – August 2009

*Medical University of South Carolina (MUSC) · Charleston, SC*

- Studied gene regulation in hematopoietic stem cells through genechip microarray analysis. Performed data mining and statistical calculations using R.

## TECHNICAL SKILLS

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### Frontend

React · single-spa (Micro-Frontend) · Redux · Apollo Client · React Native · AngularJS · Angular 2 · JavaScript ES6+ · HTML5 · CSS3 / LESS / SASS

### Backend & APIs

GraphQL · REST APIs · Java Spring MVC · Java Play · Scala / Akka HTTP · Node.js · Python · R

### Data & Infrastructure

OpenSearch / Elasticsearch · Apache Kafka · PostgreSQL · Oracle DB · MongoDB · AWS (EC2, RDS, S3, Lambda) · Microservices Architecture

### AI & Tooling

GitHub Copilot · Agentic AI Development · Claude Code · Machine Learning · Git · JIRA · CircleCI

### Mobile

Swift / iOS · React Native · AVFoundation · Alamofire

### Leadership & Process

Technical Leadership · People Management · Agile / SDLC · Mentorship · Requirements Analysis · UX / UI Design

## EDUCATION

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### **B.S. in Computer Science · Magna Cum Laude**

*College of Charleston · Charleston, SC*

August 2008 – May 2011

### **Coursera / Stanford University — Certificates of Accomplishment**

Machine Learning (November 2013) · Game Theory (March 2013)

## CLEARANCE

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Active Secret Clearance