

Sean McNealy

Atlanta, Georgia | sean@mcnealysoftware.com | +1 404.798.4375 | otherroute.net

linkedin.com/in/seanmcnealy | github.com/seanmcnealy | FL PE #98580

Specialties

Software development, stream data processing, distributed and high availability systems, software release continuous integration continuous delivery pipelines, operations dashboards, data analysis and reporting.

Education

Georgia Institute of Technology, MS in Computer Science 2015 – 2016

Declared specialization in **computational perception**, which spans between machine learning and artificial intelligence. It's the application of math to sensor or knowledge information in order to seek understanding. Graduate level courses include Computability Complexity and Algorithms, Advanced Operating Systems, Machine Learning, Reinforcement Learning, and Computer Vision.

University of Florida, BS in Computer Engineering 2003 – 2007

CIMAR, Center for Intelligent Machines and Robotics. I wrote software for the UF's DARPA Urban Challenge team. I worked on messaging protocols (JAUS, Joint Architecture for Unmanned Systems), planning (A* search for a path), and generally helping talented mechanical engineers navigate the software discipline. The team produced an autonomous Toyota Highlander.

Experience

Senior Platform Architect, Ware2Go A UPS company June 2020 – Present

I maintain an event based architecture on Kafka using Kotlin to keep up to date information constantly available and produce accurate and fast decisions and reporting. This leverages many GCP services as well as Apache Spark.

Staff Software Engineer, NCR June 2016 – June 2020

Scala application development and Salt and Ansible operations for a backend distributed system. Using Kafka message passing and Cassandra key value store to design a horizontally scalable system that processes receipts from customers. The system guarantees at least once delivery and aggregates to generate and update daily sales and tax totals. Used both AWS and GCP clouds for application hosting.

Software Engineer, Travel Syndication Technology June 2014 – June 2016

Scala application development for a travel booking web application, using responsive presentation to show both mobile and desktop views. The company follows a daily deploy process to ship features for the customer facing application. I worked on special features for travel agents, for example modifications to bookings, and reporting and integrating features between product offerings. Team Scrummaster beginning 2016.

Software Engineer, Dell Secureworks January 2011 – June 2014

Java, Scala, JavaScript, and Groovy/Grails application development in a REST service oriented architecture for applications providing internal tools and management and some customer facing interfaces.

Software Engineer, IBM Internet Security Systems June 2007 – January 2011

Worked on several releases of SiteProtector, contributing in both C++ and Java. SiteProtector is ISS's reporting, agent control, event correlation, and policy management software that works across a diverse range of ISS products. Work included using SSL/TLS, smart cards, Swing UI, and interfacing to OpenJPA.

Miscellaneous

Languages: Scala, Kotlin, Java, C++, C, Python, SQL, JavaScript, TypeScript

National Merit Scholar, Eagle Scout, Freeside Atlanta hackerspace member