

## EDUCATION

Bachelor of Science in Computer Engineering, Drexel University, Philadelphia, PA.

## SKILLS

Computer Languages:	C#, TypeScript, JavaScript, COBOL
Web Development:	Node.js, Express.js, GatsbyJS, Spring Framework, Nginx
Databases:	PostgreSQL, PostGIS, DB2
Operating Systems:	Linux (Debian based), Windows, z/OS

## WORK EXPERIENCE

### **Susquehanna International Group (SIG), October 2018 - Present, Bala Cynwyd, PA**

Software Developer - Fixed Income Trading Desk

- Member of team writing accurate, precise and highly parallel .NET applications for SIG's Fixed Income trading desk
- Frameworks used include .NET Framework 4.5.2 - 4.7.2, Windows Communication Foundation and WinForms
- Projects utilize MVVM, real-time producer-consumer architectural patterns and ProtoBuf-like serialization methods
- Focus on movement of data across various pub/sub networks including TIBCO products and local UDP sockets
- Position requires solid understanding of Fixed Income landscape
  - Exposed to fundamentals of Municipal and Treasury bonds, bond ETF and interest rate swap markets
  - Topics include yield, discount and forward rate curve creation, data normalization and basis calculations

### **JPMorgan Chase & Co., March 2016 - October 2018, Wilmington, DE**

Software Engineer - Automated Credit Application Processing Systems (ACAPS)

- Technical lead of agile team developing mission-critical software that instantly decisions credit card applications
- Lead team's adoption of Splunk and helped identify vital metrics used for application monitoring
- Architected and implemented first use of external vendors for credit card premium eligibility check
  - Solution ultimately required use of several technologies including COBOL, Java, DB2, HTTPS and CICS

Implementations Engineer - Managed File Transfer Services (MFTS)

- Implemented secure file transfers between the bank and its clients across multiple platforms and networks
  - Supported following file transfer protocols: SFTP, FTPS, HTTPS, AS2 and IBM Connect:Direct
- Assisted in development of internal Spring Boot web service
  - Configured application for seamless deployment across several environments using Maven and Jenkins

### **Muenster University of Applied Sciences Software Eng. Lab, April 2015 - September 2015, Muenster, Germany**

Research Assistant/Software Engineer

- Assisted in expansion of "Naviki" - a navigational platform for bicycles – to ubiquitous computing devices
  - Accomplished through development of an Android application for the Recon Jet HUD
- Participated in laboratory PhD study analyzing the effects of wearable technology use on running form

### **Comcast Corporation, September 2014 - December 2014, Philadelphia, PA**

Comcast Innovation Management Program

- Project manager of co-op project/website
  - Led team of six co-ops in early development of a web application implementing the MEAN stack
- Contributed as backend web developer of internal "Ideation" web portal

## PERSONAL PROJECTS

### **svdpwilm.org**

- Architected and implemented geolocation-based RESTful service using Express.js, TypeScript, PostgreSQL & PostGIS

### **briarwoodrunningcamp.com**

- Currently develop and administer GatsbyJS site for a local running camp hosted on DigitalOcean

### **alexchro.info**

- Personal website hosted via GitHub Pages and written in GatsbyJS used for personal branding and recognition purposes