**Josh Paul Walker**

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Security Clearance: Secret//NOFORN//CNWDI

**CAREER SUMMARY**

Engineer and business leader with a unique blend of artistic problem solving, military service, entrepreneurship, and unusually strong communication and writing aptitude. Ideal roles include Director or Manager of Engineering or Engineering Advocacy.

**WORK EXPERIENCE**

Senior Software Engineer, VORTO.AI, Denver, CO (5/20 to Present)

* Primary backend engineer on an extremely intense and fast-paced engineering team, building two new market-disruptive AI products from inception, encompassing design and architecture, development, and testing to GA.
* Highly stressful and dynamic engineering environment canvassed in an entrepreneurial, “at all costs” mindset.
* Strong emphasis on Golang, GRPC, and SQL, using Google Cloud with Kubernetes and Docker.

Senior Software Engineer, Recurly, Boulder, CO (9/19 to 3/20)

* Management-track team member focused on building developer tools for the internal Engineering teams.
* Heavy SaaS-centric environment using tools written in Golang and utilizing Google Cloud, Kubernetes, Docker, Helm, Code Fresh, Splunk, Git, and dozens of other technologies in a fast-paced startup environment.
* Leverage leadership and interpersonal skills with prior businesses experiences to aid in growing/evolving the team.

Software Engineer Lead, Return Path, Broomfield, CO (2/18 to 6/19)

* Lead a team of Agile engineers in the ground-up architecture and development of major new features for the email optimization platform and Machine Learning APIs.
* Developed several Golang-based services in AWS that are critical to the operation of Return Path’s product suite
* Integration with today’s trendy cloud technologies, including Kubernetes, Docker, Helm, Terraform, and Git in a CI/CD environment concentrated on Agile delivery practices.
* Player/coach role focused on mentoring team members in software development and engineering practices, while still producing substantial levels of clean source code.

Software Developer/Developer Evangelist, Webroot, Broomfield, CO (10/14 to 2/18)

* Software development in C/C++ and C# for machine learning technologies such as network anomaly detection, antivirus/malware detection, URL/IP reputation, API development, deep packet inspection, and other technologies.
* Provide a powerful presence as a Developer Ambassador at conferences, seminars, trade shows, New Hire Training, and other events in the network security engineering industry.
* Mentor and aid sales Engineers and company partners on development and integration of machine learning SDKs and APIs.
* Innovate, develop, and support multiple highly scalable cloud technologies with over 30 million sensors deployed worldwide.
* Develop applications to perform massive data acquisition and processing; pressure test antivirus software and supporting systems.
* Minor reverse engineering, decompiling, disassembly, and analysis of malware

C++ Software Developer, MEPCAD, Inverness, CO (8/13 to 8/14)

* Develop algorithms and graphic software in C++/MFC using Visual Studio, Crystal Reports, and minor amounts of C# and SQL.
* Research, develop, implement, and test software for a professional CAD engine of nearly 2 million lines of code.
* Produced solid, clean, mathematically and algorithmically intensive code to create new functionality, minor and major improvements, patches, and bug fixes.
* Produced hydraulics algorithms, functionality, and UI changes that aided immediately in substantial sales increases.

Business Owner/Entrepreneur, Destin, FL/Denver, CO (1/06 to Present)

* Founded XNR, LLC to perform the complex task of importing automotive racing vehicles into the USA and selling/renting vehicles for substantial profit, moving over $500,000 worth of product in the first 2 years of business.
* Founded Take Note Winery, LLC and secured a $260,000 SBA startup loan. Oversaw operations of all aspects of a startup, including creation of a strong business plan, securing land, procuring loans, and concurrently managing a large cross-section of consultants, contractors, manufacturers, suppliers, insurance and real-estate agents, state and federal entities, and lawyers.
* Founded, and later sold “PlumDragon Herbs” for substantial ROI. With minimal investment, grew a small niche company into a strong, well-respected performer in the USA and dozens of countries worldwide.
* Data analytics software design for consumer automotive racing applications

Electrical Systems Engineer III, ITT CAS, Inc, Huntsville, AL (5/04 to 10/10)

* Vast, multi-faceted environment of hardware and software design and integration, to include research and development in C++, MATLAB, Simulink, and a massive range of proprietary technologies.
* Design of Kalman filters, neural networks and AI technologies, imagine/signal processing and tracking algorithms for highly sophisticated RADAR and weapon systems
* Analysis of simulation results and debugging of software in Visual Studio (C++ and Fortran) for lethality criteria within the PEELS simulation software
* Produced integrated design information, concepts, requirements and strategies to guide prime contractors to build products for military operations, namely the PATRIOT Missile project.
* Operation in a highly experienced, motivated, omni-capable team of engineers spanning many companies and concentrations.

Design Engineer I, Scientific Research Corporation, Huntsville, AL (5/03 to 4/04)

* Use of C/C++, MATLAB, and packet sniffing software to analyze internet traffic, process data, and provide feedback to engineering teams for feature development.
* Research, develop, and implement solutions for systems engineering projects on the Apache helicopter program
* Verify product designs, layouts, drawings, and documents for adequacy and reliability using CMMI and Six-Sigma business practices

Satcom/Wide-band Technician, United States Air Force, Greeley, CO (6/97 to 6/03)

* Electronic troubleshooting, repair, and maintenance of Satellite/Wide-Band communications and cryptographic equipment
* Operational and theoretical training of electronic and mathematical concepts for Satellite, Radio, and Tropospheric-Scatter systems for a myriad of communications nomenclatures used in the US Military.
* Work directly with contractors to analyze equipment operation and determine software/hardware upgrades and changes.
* Training in nuclear and biological weapon environments, WWIII scenarios, weapon and situational awareness training, special-profile intelligence, leadership, HAZMAT, and CPR

**EDUCATION**

University of Alabama in Huntsville, Huntsville, AL

Master of Science in Electrical Engineering

Colorado State University, Ft Collins, CO

Bachelors of Science in Electrical/Computer Engineering (May 2003)

Minor in Physics (May 2003)

USAF Technical Training Program

Associates of Applied Electronics (August 1999)

**CERTIFICATIONS**

Data Science Dojo

Data Science and Data Engineering (September 2017)

University of Washington Professional and Continuing Education

Machine Learning (August 2018)

**NOTABLE PERSONAL ACCOMPLISHMENTS**

* Distinguished Graduate, US Air Force Technical School (Technical and leadership classes)
* Published author and prolific, well-received writer across multiple topics beyond engineering
* 100th percentile score on Analytical Writing section of GRE
* Nationally recognized and renowned martial arts instructor with multiple US branches
* ACE-certified professional personal trainer
* Competition licensure for auto racing
* Self-proclaimed beer snob