

# Andrew BATES

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<http://github.com/abates>

719 200 1191

Highly motivated network engineer and developer with experience in complex enterprise networks, multi-tiered application environments and end to end development. Extensive network and development experience including many languages and frameworks. These include C, C++, C#, Perl, Ruby, Java and Javascript. Frameworks include Spring MVC, Ruby on Rails and Node.js/Express.js. Experience also includes developing using elasticsearch and Splunk.

Significant leadership experience in large cross functional teams. This includes performing as a technical team lead in multiple positions and lead architect for major projects.

## EDUCATION

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UNIVERSITY OF COLORADO AT COLORADO SPRINGS

*Master of Science in Computer Science*

Currently pursuing MSCS. Expected completion in the spring of 2015. Currently holding a 4.0 GPA.

Colorado Springs, CO

JANUARY 2009 - *Present*

Classes Included:

- Advanced Internet and Web Systems
- Software Security
- Fundamentals of Computer and Network Security
- Introduction to Artificial Neural Networks

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COLORADO TECHNICAL UNIVERSITY

*Bachelor of Science in Computer Science*

BSCS completed in the spring of 2005. Graduated with 3.5 GPA.

Colorado Springs, CO

APRIL 2001 - MARCH 2005

Classes Included:

- Data Structures in C++
- Advanced C++
- Java for C++ Programmers
- C# for C++ Programmers
- Calculus I, II
- Differential Equations

## WORK EXPERIENCE

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APPLIED NETWORK SOLUTIONS

Software Engineer

Columbia, MD

AUGUST 2013 - *March 2015*

### NetVistra FSDB

Designed, built and delivered a first release data analytics product. NetVistra FSDB is built on [elasticsearch](#) and a customized version of elasticsearch [kibana](#). Product development efforts included setting up automated install ISO and automated deb package builds for all components of the product.

### NetVistra Splunk

Responsible for developing customized tools for the Splunk Framework. This includes custom scripted inputs in Python as well as custom dashboards using Splunk's advanced XML, Javascript, HTML and CSS.

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VERIZON  
Principal Member of Technical Staff

Colorado Springs, CO  
MAY 2012-JULY 2013

### **Global Network Planning**

Responsible for network architecture and design for various projects relating to Verizon's digital media offerings. This includes firewall, VLAN and routing design. Primarily dealt with Juniper SRX series firewalls, Juniper MX series routers and Arista modular switches. Additionally responsible for all network infrastructure for the Verizon digital media integration lab including scripted automation for regular lab changes. Scripts written in Ruby and Perl for daily firewall policy changes, daily VLAN changes and daily port assignment changes.

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VERIZON BUSINESS  
Senior Engineer - Network and Information Security

Colorado Springs, CO  
MARCH 2005 - MAY 2012

### **Network Computing Security**

Acted as a top engineer for Verizon's wireline security organization. Responsible for various security projects and activities including:

- Responsible for security review of network and application architecture for Verizon Digital Media Services. This included approving network architecture documents and application architecture documents. Required to participate in a leadership position in cross functional technical teams to build digital media services for a projected \$500B industry.
- Technical team lead for design and development of a distributed VPN system. Responsible for designing VPN using Juniper Unified Access Control. Also responsible for designing and implementing enterprise self-service system to facilitate delegated management of VPN access rules.
- Lead team responsible for reviewing and approving firewall change requests. Responsibilities included handling request escalations and assisting in dispute resolution regarding policy interpretation.
- Assisted with writing and reviewing company security policy
- Responsible for design and development of MAC and IP address correlation tool for real-time IP ownership resolution. This tool was used by most of Verizon Business' security and operations personnel during routine network tasks as well as rapid security incident response
- Tool development for security assessment and auditing. These tools were mostly Perl scripts for parsing various network configs and reporting on security issues. Some tools were developed on-demand during rapid incident response
- Development of Access Control List database for tracking changes to several thousand router based ACLs. System was written in Java utilizing Spring MVC, Hibernate, MySQL and a custom written RCS back-end