

## **Bob Van Zant**

**bob@veznat.com**

Experienced software engineer with hands on experience spanning from the FreeBSD network stack through to the innards of the Python programming language and on to software architecture in practice.

**Python:** Over 6 years of python experience. Socket and advanced socket (RFC 3542) programming. Multithreaded and multi-process architectures. Python C extensions using Cython. Experience debugging python via gdb.

**C:** Solid C fundamentals ranging from sockets programming to asynchronous I/O (kqueue). Experience working in the FreeBSD network stack, especially related to IPv6.

**Networking Protocols:** Basic understanding of Ethernet. Fundamental understanding of IP and IPv6; their differences and similarities and why they work. Experience working with TCP, UDP and limited experience with SCTP. Extensive experience with SMTP and HTTP.

### **Cisco Systems (via acquisition of IronPort Systems)**

#### **April, 2004 – Present**

Within the Security Technology Business Unit (STBU) of Cisco I recently tackled a 12 month project that added IPv6 support to the Email Security Appliance. After finishing that project and getting it into the hands of customers I moved on to a brand new team within STBU responsible for building a next generation firewall. On the next generation firewall team I own the components that do application-layer inspection of protocols and that help enforce acceptable use policies.

In the 6 years I've spent at IronPort I have owned numerous features including IPv6 support on our email product, all application-layer protocol inspection on the next generation firewall, a system for keeping our web product operational when the thirdparty Anti-Virus scanner breaks and a framework for adding new security blades to our email product efficiently. I have delivered special projects for high profile customers including a very high performance LDAP to MySQL proxy.

I spent 12 months in India as an expat building out a new engineering team overseas. The net result was a rockstar development team that, from 10,000 miles away, contributed immensely to our web product roadmap and today owns numerous components of that product. This team and its construction are now being used as a model for how to do remote development within Cisco.

### **Groundspring.org**

#### **June 2003-April, 2004**

At groundspring.org I worked primarily in PHP on some of our web-based applications especially DonateNow.

### **Microtech Systems, Inc**

#### **March, 1997-March, 2003**

Web-based applications using ASP.

### **Education**

B.S. with Honors in Computer Science from UC Santa Cruz, March 2004, 3.9 GPA. Dean's list.

### **Life Outside of Work**

Private pilot, single engine land. RC airplanes and helicopters. Cycling. Taking the Volkswagen to the race track.