Alan Ning

Software Engineer / Problem Solver

Contact

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Location

Postal Code & City	20171 Herndon
Region	Virginia

Work Experience

2016-09-21 TILL TODAY

Site Reliability Engineer at United States Digital Service - Department of Veterans Affairs:

I became a SRE because the other guy left.

- Guided the VA cloud migration effort that includes Direct Connect configurations, network performance analysis, and VPC design that scales for thousands of tenants.
- Led the Caseflow SRE team to design and build a resilient cloud infrastructure while integrating to legacy systems. Also built a CI/CD pipeline with daily production deployment to maximize team velocity.
- Migrated a 30 year old Oracle database that holds all Veterans Appeals to the cloud using AWS DMS.
- Automated my job away.

2015-11-07 TILL 2016-09-20

Technical Lead at United States Digital Service - Social Security Adminstration:

I was hired as a Node.js coach and ended up being the Technical Lead on Disability Case Processing System (DCPS).

- Led and developed a complex disability case processing system using a microservice architecture with modern HTML5 SPA frontend
- The project was extremely complicated. In addition to the usual micro-service challenges such as data consistency and debugging, we also had to integrate with legacy mainframe systems and mailing machines.

2005-06-15 TILL 2015-10-31

Technical Lead Engineer at Boeing / Digital Receiver Technology:

Started as an embedded C++ developer, ended up doing the entire software stack 10 years later.

- During the first 4 years, I was an embedded programmer writing C++. My day-to-day focus was to write high performance code that does not have memory leaks, stack/heap corruptions or race conditions.
- In the next six years, I became a tech lead and developed a wide variety projects across the development stack. Over the years, I have developed Java SOAP service, C# WinForms application, integrating with big data tools like Cassandara, Android application, NVIDIA CUDA Framework. I also did a bit of cybersecurity research that involved forwarding mobile IP packets using ARP poisoning.

Education

2005-09-01 TILL 2007-06-01

Johns Hopkins University

- Master: Computer Science

2001-09-01 TILL 2005-05-01

Rensselaer Polytechnic Institute

- Bachelor: Computer Science / Economics (Summa Cum Laude)

Awards

ENGINEER OF THE YEAR
2012-12-01

Boeing

- Engineer of the Year in 2014 (Nominated)

ENGINEER OF THE YEAR
2012-12-01

DRTi

- Engineer of the Year in 2012

Skills

Front-end Development: HTML5, D3, SCSS, AngularJS, React

Server Side Development: Node.js, Express.js, Hapi.js, Java, C#, RethinkDB, Redis, Elasticsearch, Zookeeper, Ruby on Rails

Cloud Development: Docker, Openshift, Kubernetes, AWS, Ansible, Terraform, Jenkins, Prometheus, Sentry, Redis

High Performance Embedded Development: Modern C++, C

Mobile Development: Android