

# 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 Administration](#):

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 Cassandra, 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