

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 began as the SRE for Caseflow and left having architected the VA's migration to AWS.

- Guided the VA cloud migration effort, which includes Direct Connect configurations, network performance analysis, and VPC design that scales for thousands of tenants.

- Led the SRE team for the Veterans Appeals modernization effort (Caseflow).

- Designed and built a resilient cloud infrastructure for Caseflow that integrated with the VA's legacy systems.

- Built a CI/CD pipeline that allowed daily production deployments, which increased the team's velocity.

- Migrated the 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 began as a React/Node.js coach and left as the Technical Lead on the Disability Case Processing System (DCPS).

- Led and developed the Social Security Disability modernization project using microservice architecture with an HTML5 SPA frontend.

- Integrated the modern microservice architecture with legacy mainframe systems and mailing machines.

- Delivered a highly visible MVP under a tight deadline, which led to successful product shipment across many states.

2005-06-15 TILL 2015-10-31

Technical Lead Engineer at [Boeing / Digital Receiver Technology](#):

I began as an embedded C++ developer and left as a full stack software developer.

- Wrote high performance C++ code with the focus of minimizing memory leaks, stack/heap corruptions, or race conditions.

- Developed multiple applications, both native and web-based, including technologies such as Java SOAP, C# WinForms, CassandraDB, Android, NVIDIA CUDA Framework and Node/React/AngularJS.

- Performed cybersecurity research that involved forwarding mobile IP packets using ARP poisoning.

- Became a technical lead for a wide variety of projects.

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)

SKILLS

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

Server Side Development: Node.js, Express.js, Hapi.js, Java, C#, Python, 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