Alan Ning

Software Engineer / Problem Solver

Contact

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Location

Region	Virginia

Work Experience

2021-10-01 till today

Software Architect at Manifold.ai:

I architect ML pipelines and generate meaningful outcome.

2020-06-01 till 2020-09-01

Site Reliability Engineer at **Uptime2020 Consultant:**

Supported various election-related SaaS companies to ensure the their product security and reliability during the 2020 US election cycle.

2018-10-01 till 2021-10-01

Staff Reliability Engineer at Tenable:

I create scalability solutions for Tenable.io.

- Designed and implemented a custom Elasticsearch sharding layer to break out a petabytes-scale monolith database into an infinitely scalable number of databases.
- Implemented a caching layer for the Tenable.io edge using Cloudflare Worker. This layer handles over 5000 requests per sec, and saves petabytes of bandwidth per year.

2016-09-21 till 2018-08-31

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.
- 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: AngularJS, React, Vue.js

Server Side Development: Node.js, Express.js, Java, C#, Python, Redis, Elasticsearch, Zookeeper, Ruby on Rails, Kafka, PostgreSQL

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

High Performance Embedded Development: Modern C++, C

Mobile Development: Android