Andrew T. Woosnam

Software Engineer

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📍 New Haven, CT

🐙 github.com/andrew-woosnam

EDUCATION

Bachelor of Arts,
Computer Science

Carleton College

📅 Sept 2014 - Jun 2018
📍 Northfield, Minnesota
🏆 Cum Laude (GPA 3.7)

AWARDS

★ 3rd Place "Best Plugin" in Green Software Foundation Hackathon 2024

SKILLS

➢ Azure DevOps
➢ Bash
➢ C# / .NET
➢ Concourse CI
➢ Docker / DockerHub
➢ Git / GitHub / GitLab
➢ Go
➢ HTML / CSS
➢ Java
➢ Javascript / Typescript
➢ Kubernetes
➢ PostgreSQL
➢ Powershell
➢ Python
➢ React + Redux
➢ Ruby on Rails
➢ Spring Boot
➢ Swagger
➢ Unix
➢ Visual Studio Extensibility (VSIX)

EXPERIENCE

Sustainability Software Engineer

VMware Inc. Feb 2023 - Jan 2024

➢ Initiated a company-wide initiative to optimize resource consumption of Spring Boot services, reducing workload memory consumption by 50% - 80% and reducing startup times from minutes to milliseconds.

➢ Developed proof-of-concept applications to illustrate potential financial and carbon savings gained by scaling data center workloads according to the availability of renewable electricity.

➢ Steered VMware's entry to the Green Software Foundation, facilitating development of sustainable software best practices with 25+ leading industry corporations.

➢ Organized VMware's inaugural Sustainable Software Development Workshop, featuring 20+ talks for 300+ professionals on integrating sustainable features into VMware's products and services.

Member of Technical Staff III

VMware Inc. Mar 2020 - Feb 2023

➢ Advocated for the creation of .NET-specific developer tooling to expand the Tanzu brand to 2,000+ .NET Core devs using Visual Studio.

➢ Pioneered a new ".NET Developer Experience" team, acting as tech lead to build new services for .NET workloads in the cloud.

➢ Produced IDE extensions to facilitate "1-click" workload deployments, remote debugging, and log streaming of .NET workloads running in Tanzu from within Visual Studio (300+ MS marketplace downloads).

➢ Mentored junior engineers via pair programming, regular meetings, and recommendations for additional learning.

Software Engineer

Pivotal Software May 2019 - Mar 2020

➢ Contributed features, tests, and bug fixes to Ruby-on Rails/Javascript web service for identifying optimal upgrade plans for Pivotal Cloud Foundry instances hosting myriad interdependent microservices.

➢ Converted front end to Typescript, saving 20+ hours per month by catching type errors upon compilation instead of at runtime.

➢ Collaboratively redesigned backend state compatibility service to perform at $O(N \log N)$ instead of $O(2^N)$, reducing computation time for large inputs from 9+ hours to under 10 minutes.

➢ Implemented Extreme Programming principles like Test Driven Development, Pair Programming, and retrospectives.

➢ Arranged SRE workshop for dev team, identified SLOs (e.g. 99% uptime), and implemented mechanisms within the codebase to measure and report on SLIs.

Node.js Developer

BlocSide Sports Oct 2018 - Mar 2019

➢ Constructed and managed an AWS-hosted Node.js backend API to process 100+ daily debit card transactions from mobile apps.

➢ Engineered API client for trading and viewing transaction logs for ERC-20 Ethereum blockchain NFTs.