

# Christopher V. Smith

FULL-STACK SOFTWARE ENGINEER

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## Experience

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### Foundry.ai | Washington, DC

SENIOR SOFTWARE ENGINEER | 2020 - PRESENT

SOFTWARE ENGINEER | 2019 - 2020

- Led infrastructure and backend development of staffing optimization tool for a national renewable energy company. Python backend runs 1000s of experiments to find optimal staffing levels across fleet, based on user inputs, then generates interactive graphs to enable the user to learn from the results. Managed QA and deployment to client AWS environment with Terraform. Architecture includes ECS, RDS, Step Functions, Batch, Lambda, NestJS, and Vue.js. Model includes LightGBM and custom simulation work.
- Architected forecasting product for a national restaurant chain that demonstrated \$8 MM in potential revenue improvement during test/control pilot in 10% of stores. Integrated with client's existing workforce management system. SageMaker, Kedro, Prophet, and DeepAR.
- Built AutoML model selection and hyperparameter tuning tool for time series forecasting for pilot with international clothing retailer. System trains and cross-validates hundreds of models in parallel in the cloud. Multi-week manual process can be done overnight, with better results. Terraform, Step Functions, Batch, Python.
- Recruiting co-lead: Conducted 100+ interviews. Coordinated 500+ interviews. Organized campus events.
- Information security co-lead: SOC2 Type 2 audit, VPN management, AWS security and cost management.

### Facebook | Menlo Park, CA

PRODUCTION ENGINEER, INTERN | 2018

- Designed, wrote, and deployed a Thrift service to allow kernel developers to better track kernel builds, installations, and tests.
- Added check-ins to the tracking service by existing services throughout the build and test process.
- Created a Python CLI that enables kernel developers to immediately view the results of tests and their logs.

### Cisco Meraki | San Francisco, CA

SOFTWARE ENGINEER, INTERN | 2017

- Led platform bring-up of vMX for Microsoft Azure, an in-demand virtual version of Meraki's security appliance that enables customers to extend Auto VPN and SD-WAN into their cloud deployments.
- Wrote C++, shell scripts, and Makefiles to build new version of the MX firmware, inject custom data into an Azure VM, and authenticate vMX to the Meraki Dashboard.
- Handled logistics with Azure representatives to package and list the virtual machine in the Azure Marketplace.

### Boeing Defense, Space & Security | Ridley Park, PA

SOFTWARE ENGINEER, INTERN | 2016

- Worked alongside veteran software engineers in H-47 Chinook avionics group to improve simulator fidelity and graphics to cockpit displays.
- Created visualization tools with Python for millions of lines of aircraft debugging data from customers.

### Accolade | Plymouth Meeting, PA

SOFTWARE ENGINEER, INTERN | 2015

- Slashed customer support calls by 20% by improving the client portal's help form.
- Created process-improving tools and automated testing suites to evaluate database reliability and web app performance.

## Education

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### Carnegie Mellon University | Pittsburgh, PA

M.S. IN ELECTRICAL & COMPUTER ENGINEERING | 2019

B.S. IN ELECTRICAL & COMPUTER ENGINEERING, MINOR IN SOCIAL & POLITICAL HISTORY | 2018

### AWS Certified Solutions Architect - Associate

ISSUED 2020