

Yi Yang

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EDUCATION

Bowdoin College

Brunswick, ME

BA in Computer Science and Math, GPA: 3.6

Expected: May 2024

- Relevant Courses: Distributed Systems, Algorithms for GIS, Computer Systems, Computational Creativity, Deep Learning, Artificial Intelligence, Intermediate Cybersecurity, Combinatorial Optimization, Graph Theory

TECHNICAL SKILLS/AWARDS

Languages: Java, Python, Typescript, Ruby, C, VBA, HTML, CSS

Frameworks: SpringBoot, Google Guice, WordPress, Flask, Heroku

Developer Tools: Git, Linux Terminal, PyCharm, VS Code, Eclipse, IntelliJ

Awards: CodePath, America on Tech, Tapia Scholar, Lime Connect Fellow 2022, Questbridge Scholar

EXPERIENCE

Amazon Web Services - EC2 Aardvark

May 2023 - Aug 2023

SDE Intern | Java, Python, Typescript, CDK, Cloud Networking

New York City, NY

- Collects, batches, and aggregates over 2 petabytes of customer layer 3+4 network flow telemetry data daily. Aardvark generates parcels which are sent down to VPC FlowLogs and Security teams.
- Extending end-to-end Canary testing pipeline infrastructure that uses over 10 different AWS services to automatically audit the workflow generation of a new parcel type on an hourly cadence. Ensure the health of millions of parcels every day.
- Utilized knowledge of AWS Step Functions, Lambda, EC2, VPC, S3 and Cloud Networking.

Amazon Web Services - EC2 Quartz

June 2022 – Sept 2022

SDE Intern | Java, Ruby, DynamoDB, CloudFormation, Google Guice

Arlington, VA

- Responsible for metering EC2 Instances and EIP across AWS Regions and generating records as part of the AWS billing process. Ensuring 99.99% metering accuracy.
- Reduced operational load of one of our core services which does EC2 instance metering for all EC2 instances, dedicated hosts, and ODCR across all AWS Regions/Availability Zones by 7%.
- Ensured an accurate billing process for millions of EC2 customers. Projected \$5 million dollars in savings.

Bowdoin College CS Dept

Sept 2021 – Present

CS Teaching Assistant | Java, Python

Brunswick, ME

- Successfully taught over 100 students foundational Data Structure concepts and over 50 students Computer Science topics via whiteboarding, leading to a 100% lab assignment completion rate semester over semester.

University of North Texas

June 2021 – Aug 2021

Undergrad ML Researcher | pandas, NumPy, scikit-learn

Denton, TX

- Developed a machine learning pipeline with data extraction from CUAD (Contract Understanding Atticus Dataset), data pre-processing, feature selection using tf-idf, and model training consisting of several traditional classifiers such as MultinomialNB, Cart, SVC, Random Forest, XGBoost, etc.
- Conducted hyper-parameter tuning, resulting in increases ranging from 15% to 100% in validation accuracy across the classifiers used.

Bowdoin Orient

Jan 2021 – May 2022

Web Director | PHP, Javascript, JQuery, WordPress, MySQL

Brunswick, ME

- Communicated with Editors about weekly home-page changes and implementing requested features.
- Organized development team and reviewing/approving commits before merging into master.

PROJECTS

Coffee Maker Application | AngularJS, Java, Spring Boot, MySQL

- Lead the design and implementation of a full stack Coffee Maker application with CRUD capabilities.
- Exposed 10+ API endpoints to the front end that fetched data from MySQL database.

P2P File Sharing System | Java

- Used sockets and multithreading to implement a P2P file sharing system via the centralized directory architecture.
- Allow users to register, lookup, and download files from peers.