

# JOHN BINGHAM

✉ [jackbingham7@gmail.com](mailto:jackbingham7@gmail.com)

🌐 [john-bingham.com](http://john-bingham.com)

🌐 [LinkedIn](#)

🐙 [GitHub](#)

📞 (516) 404-1372

## Skills

- **Languages & Frameworks:** Python, TypeScript, JavaScript, SQL, C/C++, Shell, React, Vite
- **Technologies & Tools:** AWS, Azure, CloudFormation, Terraform Git, Unix/Linux, Cursor, Jira, Postman

## Work Experience

### Ark Technology Consultants (Full Time)

April 2023 – Present

*AWS Solutions Architect & Developer | AWS, JavaScript, Python, SQL*

*Hybrid from New York, NY*

- Designed and developed a full stack job posting site for school district hiring using Vite/React/TypeScript frontend and AWS serverless backend (API Gateway, Lambda, PostgreSQL, Cognito) built entirely in CloudFormation. Implemented CI/CD with multi-account CodePipeline, automated testing via Selenium.
- Implemented comprehensive security infrastructure for a financial institution using AWS Security Hub, Config, and Billing Management. Configured automated security auditing and cost alerting according to AWS Well-Architected Framework best practices.
- Architected an AI-driven marketing solution using SageMaker to analyze website data and target email campaigns. Built cross-account Lambda integrations and automated data flows between S3 and Salesforce using AppFlow.
- Developed an automated web scraping tool to extract data from a 3rd party site. Built using a Docker container image hosted in AWS Lambda and triggered on a scheduled basis.
- Built out internal data warehouse using Microsoft Fabric. Integrated with various internal systems, including ERP, CRM, T&E systems using Azure Data Factory and Spark Notebooks to give our leaders insights into our metrics.
- Automated document generation with Power Automate to create school board documents, saving users 10+ hrs/wk.
- Various data visualization projects using a variety of tools including Power BI, QuickSight, Superset, etc.

### FirstWatch Crypto (Contracting)

February 2023 – April 2023

*AWS Developer | AWS, Python, SQL*

*Remote from New York, NY*

- Designed and implemented an automated data pipeline using AWS Lambda, RDS PostgreSQL, and CloudFormation to extract and process API data, with near real-time visualization through Grafana dashboards and automated deployments via CodePipeline.

### PricewaterhouseCoopers (Full Time)

June 2021 – June 2022

*Cloud and Digital Technology Associate | SQL, JavaScript, ServiceNow, Tableau, Excel*

*New York, NY*

- Built, tested, and implemented an automated reporting system in Tableau. SQL scripts pulled and filtered the data from the database, then Tableau was used to visualize and publish the results. Saved our team 15hrs/week of manual work.
- Identified serious security gaps at a client by debugging a SQL script after noticing anomalies in the data. Redesigned a new script to fill these gaps and protect the client's environment from bad actors.

### Journey of Awesomeness (Full Time)

November 2020 – June 2021

*Full Stack AWS Developer | AWS, JavaScript, Node.js, HTML, CSS, Git*

*Remote*

- Created a fully operational charity bike race website using AWS services (EC2, RDS PostgreSQL, S3, Cognito, Route53) and Node.js/Express backend, successfully raising \$268,091 for foodbanks.

## Project Experience

### Trivki (Self Employed)

July 2022 – December 2022

*Full Stack AWS Developer — Python, AWS, JavaScript, React, HTML, Tailwind, Git*

*New York, NY*

- Developed Trivki (no longer maintained), a trivia website that automatically generates quizzes from Wikipedia using a custom scraping algorithm, built with React/Tailwind frontend and serverless AWS backend (Lambda, DynamoDB, Cognito) deployed via CloudFormation.

## Education

### University of Notre Dame: GPA 3.87

August 2017 – January 2021

*Bachelor of Science in Computer Science*

*South Bend, IN*

- Graduated Magna Cum Laude a semester early (7 semesters) — Cumulative GPA: 3.87

## Certifications

AWS Certified Solutions Architect – Professional

September 2024

AWS Certified DevOps Engineer – Professional

January 2022

AWS Certified SysOps Administrator – Associate

April 2021

AWS Certified Developer – Associate

December 2020

AWS Certified Solutions Architect – Associate

October 2020

## Interests

Non-fiction Books (esp. Finance, Biography, History) | Cryptocurrency | Chess | Golf | Geography | NY Sports | Trivia | Poker