

Brian Michael Donelan

brian.donelan@gmail.com
+1 740 403 3345

Education

AMAZON WEB SERVICES

AWS Certified Developer - Associate

December 2019

VANDERBILT UNIVERSITY, Nashville, TN (Ranked 15th in U.S.; 13% admit rate)

B.E. in Mechanical Engineering, Double Minor: Corporate Strategy, Engineering Management

May 2013

Dean's List; 3.6/4.0 GPA

- 99th Percentile on SAT (800 Writing, 770 Math, 760 Reading)
- 99th Percentile on ACT (34 Composite)
- National Merit Scholar (Awarded to top 0.5% of high-school students)

Work Experience

J.P. MORGAN CHASE & COMPANY

March 2022 – Present

Cloud & Data Engineer – Global Banking Platform

Columbus, OH

- Lead team of 5 to design and build CQRS/event-sourcing driven data pipeline for a real-time dashboard of CI/CD
- Responsible for spearheading cloud cost rationalization efforts from \$800K/month to \$550K/month: 31% savings
- Responsible for provisioning and supporting cloud-native AWS resources to host the Global Banking Platform, comprising vendor- and in-house-written microservice applications utilizing Kubernetes, Kafka, Aurora Postgres, SQS, Lambda, EventBridge, Secrets Manager, Terraform, Jenkins and more
- Conceived of and executed automated installation orchestration solution for 200+ microservice ThoughtMachine vendor product to reduce environment provisioning time from 14 days to 1 hour, and eliminating manual toil

AMERICAN ELECTRIC POWER (VIA ETTAIN GROUP)

June 2021 – February 2022

Consultant – Machine Learning/Cloud Engineer (Contract)

Remote

- Work with Machine Learning data pipelines to build an automated Computer Vision solution for power line poles
- Develop Kubernetes Artificial Intelligence Job scheduling orchestration in Python utilizing Jinja2 templating and Kubernetes Python API calls, to successfully drive down cloud costs when autoscaling GPU-attached inference jobs
- Build out microservices with FastAPI and PostgreSQL-based queueing system to facilitate end users uploading geolocated images and videos to S3, and running TensorFlow inference against the images and videos

LPL FINANCIAL

September 2020 – June 2021

Associate Vice President Tech Lead – Application Development (Contract to Hire)

Remote

- Lead team of 5 to develop RESTful APIs in C#/.NET with Angular user interface to automate back office business tasks
- Buildout through full SDLC cycle including production Elastic Kubernetes Service featuring CI/CD capability
- Spearheaded implementation of AWS Managed Streaming Kafka as middleware/message broker for distributed apps

ERNST AND YOUNG

February 2020 – September 2020

Manager - Cloud Consulting – Financial Services

Columbus, OH

- Design, prove out, and present key cloud security patterns (OAuth, WAF, etc) for a Bulge Bracket investment bank
- Research and recommend continuous compliance using AWS Config and AWS Config Rules to a midsized bank
- Lead team of 15 on Cloud Migration Factory initiative to develop landing zones and reusable accelerators to streamline cloud adoption amongst clients, developing corresponding go-to-market strategy and communications

NETJETS (A Berkshire-Hathaway Company)

December 2018 – January 2020

Senior AWS Cloud Engineer (Contract to Hire)

Columbus, OH

- Utilize DataDog for resource and performance monitoring and alerting throughout stewardship of Cloud migration
- Implement AWS CodeBuild to build a Node.js/Gatsby application, and deploy to a serverless static site hosted on S3
- Design and program additional features into custom-built “Pipeline Factory” constructed on Python (Troposphere) to simplify and standardize creation of Jenkins pipelines and AWS CloudFormation files for end users
 - Utilize ECS, EKS, Lambda, DynamoDB, EC2, Param Store, Secrets Manager, KMS, ASG, and more

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Work Experience (continued)

J.P. MORGAN CHASE & COMPANY April 2017 – December 2018

DevOps Engineer – Digital DevOps NextGen Team (Contract to Hire) Columbus, OH

- Create Python (boto3) AWS Lambda function to automatically terminate aged EC2 instances per security needs
 - Won 3rd place in Columbus Global Hackathon for ElasticSearch/Logstash/Kibana big data analytics platform
- Install and configure Prometheus, Grafana and various exporters for real-time monitoring and alerting

CARDINAL HEALTH August 2016 – April 2017

Senior Analyst, Software Engineering Columbus, OH

- Solely responsible for full stack (client and server) design, architecture, and implementation of Python Django web application to monitor hundreds of data center appliances around the world via SSH and JSON/APIs

GENENTECH (Leading biotechnology firm; Member of the \$50BN/year Roche Group) December 2014 – January 2016

Automation Engineer – Drug Product South San Francisco, CA

- Built Python/Pandas data analytics script to calculate equipment performance using sensor data
- Made proof-of-concept web dashboard using JavaScript (MEAN stack – MongoDB, Express, Angular.js and Node) to programmatically share data analytics with stakeholders

Internship Experience

DISH NETWORK (Fortune 200 telecommunications firm) Summer 2012

Internship – Data Science and Resource Alignment Team Denver, CO

- Saved \$4.52MM NPV by demonstrating and fixing errors in old linear regression forecasting model. Designed and built a new non-linear autoregressive Neural Network model. Improved Mean Absolute Percent Error (MAPE) 10x

NATIONAL INSTRUMENTS (\$1BN tech firm, Fortune's Best Companies to Work For) Summer 2011

Internship – Engineering Leadership Program Austin, TX

- Created, sold, and managed \$10k marketing project plan. Captured new sales leads by heading a cross-functional team to design and construct an innovative product demo. Presented this at a trade expo and at a client seminar
- Fulfilled requests from international branches to borrow the product demo to show to overseas customers

BRIAN DONELAN'S COMPUTER CONSTRUCTION June 2005 – August 2009

- Started a business building and repairing computers and networks for families and businesses Granville, OH

Undergraduate Leadership Experience

QUALITY MANUFACTURING SYSTEMS INC. (Pharmaceutical automation systems integrator) September 2012 – May 2013

Senior Design Team Leader – Award-Winning 2-Semester Senior Design Project LaVergne, TN

- Led team of 5 cross-disciplinary engineering students to build and program a mechatronic quality control solution
- Implemented computer vision and advanced artificial intelligence algorithms such as a Support Vector Machine (SVM) to detect faulty pharmaceutical capsules. Used Servo motor and Arduino controller to isolate defective pills

Skills

Amazon Web Services, Kubernetes, Python, SQL, Microsoft Azure, JavaScript, Java, C#/.NET, Oracle PL/SQL, MATLAB, Ubuntu, Linux Shell Scripting, Neural Networks, Support Vector Machines, Regression, MongoDB, Microsoft SQL Server, VBA, HTML and CSS, Logstash, Kibana, ElasticSearch, JIRA, Confluence, Django, Jenkins, Docker, Perl, R