JONATHAN COTHRAN
SOFTWARE DEVELOPER

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Professional Summary

Dynamic technology professional specializing in API development and web services. Five years' experience delivering performant architectures for high visibility features. Training in cloud computing, service-oriented architecture, and data analytics. Adaptive to latest development libraries and cloud-based solutions.

Core Skills and Competencies

Python | Golang | React | Java | | Mongo NoSQL | Git Repository Management | SQL + Relational Databases | PaaS | REST APIs | AWS | GCP Cloud | Protocol Buffer Specification | HTTP/2 – gRPC Services | Multidisciplinary Collaboration | Strategic Requirement Planning

Education and Training

Bachelor of Science: Biology – 2015
University of Maryland, College Park - College Park, MD

AWS Certified Developer - Associate - 2022

Data Analytics Certification – 2018
Montgomery College - Rockville, MD

Professional History

Software Developer, 01/2022 to the present
National Center for Biotechnology Information | Black Canyon Consulting - Bethesda, MD
- Design and build a data-integrated web page serving current knowledge in biomedical data
- Serve specialized data integration cycles to reliably serve expansive SARS-COV-2 informatics in real-time
- Maintain Extract Transform Load (ETL) systems serving globally scoped research needs

Software Developer, 11/2018 to 01/2022
OpenPath Products - Annapolis, MD
- Expanded mobile application by developing high-performance Java-based Natural Language Processing (NLP) service
- Successfully scaled to one million weekly NLP users to inform finance and investment decisions
- Innovated NLP capabilities through customized data-science web services
- Integrated unique Python and Linux expertise to solve cross-disciplinary team challenges

Research Specialist, 04/2017 to 08/2018
University of Illinois at Chicago - Chicago, IL
- Established computational research methods for physiology lab
- Provided in-house ImageJ extensions to obtain pivotal microscopy analyses
- Facilitated high-impact publications by formalizing experimental protocols