

JONATHAN COTHRAN

SOFTWARE DEVELOPER

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Professional Summary

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

Professional History

Software Developer, 01/2022 to the present

National Center for Biotechnology Information | Guidehouse Digital - 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
- Provide programming client interfaces for data driven bio-sciences

Software Developer, 02/2020 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 guide and 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
- Design to delivery on critical path projects
- Implemented automated testing solutions to ensure bug-free production deployments

Research Specialist, 04/2017 to 08/2018

University of Illinois at Chicago - Chicago, IL

- Established computational research methods for physiology lab group
- Provided in-house ImageJ extensions to obtain pivotal microscopy analyses
- Facilitated high-impact publications by formalizing experimental protocol

Research and Development Scientist, 05/2016 to 12/2016

Thermo Fisher Scientific - Frederick, MD

- Developed major line of products for global vaccine research needs

Core Skills and Competencies

Python | Golang | React | Java | CLI Application Development | Mongo NoSQL | Git Repository Management | SQL + Relational Databases | IaaS + PaaS Provisioning | Linux Bash Shell | AWS + GCP Cloud | Protocol Buffer Specification | HTTP/2 – gRPC Services | Agile Methodologies | Analytical Problem Solving | Multidisciplinary Collaboration | Strategic Requirement Planning

Education and Training

Bachelor of Science: Biological Sciences, 2015

University of Maryland, College Park - College Park, MD