John T. Prince

Data Engineer

Recent Positions

Senior Data Engineer (Technical lead and Manager)
Apr 2019 – present. Engineering department, 3plCentral, American Fork, Utah.
- Led new data engineer team to create event driven data platform in AWS
- Event driven processing system with Kafka and Faust (async python)
- Multi-tenant relational database to serve as data warehouse
- Order-volume dashboard and inventory reporting flask-based REST APIs
- Middleware (authorization) using AWS lambda
- Created or modified much of our team's gitlab CI/CD pipeline

Senior Software Engineer
Sep 2014 – Apr 2019. Engineering dept, Doba Inc. and CruxConnect, Lehi, UT.
- Design and implementation of CruxConnect product and catalog search domains
- Co-architect of CruxConnect's RESTful API
- Parallel processing with async and utilizing AWS serverless architecture
- Integration of AWS tools (Dynamodb, SQS, lambda, etc) into Doba platform
- Multiple supplier and CRM API integrations utilizing SQS and DynamoDB

Assistant Professor of Chemistry and Biochemistry
Mar 2010 – Sep 2014. Chem & Biochem, Brigham Young University, Provo, UT.
- Algorithm and software development for large-scale data analysis
- Computational biology and bioinformatics (e.g., taught computational proteomics)

Education

PhD in Molecular Biology: Bioinformatics and Computational Biology Track
Aug 2001 – May 2008. Center for Systems and Synthetic Biology, UT Austin.
- Thesis: "Integration and Validation of Mass Spectrometry Proteomics Data Sets"
- GPA 4.00/4.00

Bachelor of Science in Microbiology (Chemistry minor)
Dec 2000. Dept of Biology and Agriculture, BYU, Provo, Utah.
- *Magna Cum Laude* (3.9/4.0)
- National Merit Scholar

Select Proficiencies

Python (6 yrs), Ruby (15 yrs), Severless framework, Kafka, Faust (async stream processing), AWS (SQS, S3, Kinesis, DynamoDB, Lambda, Api-Gateway, Athena, ECS, and Fargate), Elasticsearch, MySQL, Postgresql, Django, Django Rest Framework, Flask, Pydantic, Dataclasses, Numpy/Scipy, Seaborn, SciRuby, Linux (~20 yrs, 11 yrs on Arch), Docker, Git, Github, Gitlab, Neovim, i3, Bash, Zsh, Cron

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