

# Jonathan Goldfarb

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*Summary:* Experienced technologist seeking a position with a challenging organization where I can continue to grow as a professional, collaborate with a diverse and inclusive team, and contribute meaningfully towards long-term goals.

## Experience

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### Dental EMR

**Bend, OR (Remote)**

*Engineering Manager*

*October 2020–January 2021*

- o Design and develop features across a legacy RESTful Python (Django) backend and a JavaScript (AngularJS) application. Generate data model documentation, and integrate external APIs with frontend code. Evaluate and review Python 3 migration plans.
- o Communicate with technical and non-technical team members and stakeholders to develop requirements for product iterations and technology strategies for data and application security. Develop user stories on Atlassian Jira.

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**Columbus, OH (Remote)**

*Technical Lead*

*September 2019–December 2020*

- o Design, develop, and implement microservice-based application backend: Python 3, Node.js/JavaScript, and SQL deployed to AWS Lambda & RDS. Integrate data sources, internal web services, and vendor APIs (Dwolla, Plaid, Auth0). Develop data-intensive JavaScript (Svelte) front-end applications.
- o Architect containerized continuous integration and deployment pipelines using Docker and Gitlab. Integrate cloud solution for deployment of application to production on AWS RDS and EC2 using Terraform and the AWS CLI.
- o Provide technical review and input on architecture & product roadmaps. Train development team members on best practices, collaborate on sub-tasking available resources and risk analysis. Create integration-level cutover and test plans, and develop unit tests for core functionality. Generate API collateral and detailed user stories.

### Deschutes County Public Health, &c

*Volunteer*

*Between Employment*

- o Volunteer to assist in hands-on and leadership roles, from directing traffic and resource flows, to assisting members of the community of all ages and abilities in their access to essential services.
- o Engage in outreach and fundraising activities for inclusive mission-oriented organizations; build strategy for growth and value generation.
- o Communicate effectively with members of the public, and develop activities of vendors, clients, and colleagues around common goals. Encourage civic engagement and learning of future generations of leaders and thinkers.

### Florida Institute of Technology

**Melbourne, FL**

*Assistant Professor and Director of Mathematics Advancement Center*

*August 2016–July 2020*

- o Technical lead, large-scale, high performance software package for optimal control in quantum mechanics and biomedical engineering applications.
- o Developed open-source computational toolbox for optimal staff scheduling in COIN/OR, integrated with C and Julia code. Implemented ETL pipelines and automations for stakeholder report generation in Python.
- o Create instructional material on data-driven analysis and computational approaches to problems in applied and physical sciences, statistical methods, machine learning, and simulation. Mentor students in Python language fundamentals and applications.

### Harris Corporation

**Melbourne, FL**

*Software Engineer*

*May 2016–December 2016*

- o Develop expertise in distributed and parallel algorithms for large-scale data processing (Scala, Apache Spark, Hadoop and HDFS, and C++). Discover requirements and opportunities, document technical approaches and patterns for future development needs.
- o Use Gitlab for continuous integration testing and collaboration. Manage HPC cluster using Zookeeper.
- o Manage backlog and collaborate on issues using Jira and Kanban. Train in Agile/Scrum resource management, assisting and leading standups, sprint retrospectives, demonstrations.

## Florida Institute of Technology

Melbourne, FL

Graduate Student Assistant

August 2009–May 2012, August 2015–May 2016

- o Design, manage, and test API integrations for Sage (Python) and WebWork (Perl) server applications for use in production for educational and research capacities.
- o Developed MATLAB, R, and Julia models for applications in statistics and physics and delivered training on computational tools.
- o Mentor for junior team members and group lead for core functional requirements, generating work products with applications in optimization, differential equations, and dynamical systems as a part of the Abdulla Lab.

## Education

### Florida Institute of Technology

Melbourne, FL

PhD, Applied Mathematics

Spring 2016

Dissertation Topic: *On the Optimal Control of Free Boundary Problems for Second Order Parabolic Equations*

## Skills

**Analysis:** Goal-oriented analytical skills applied to requirements discovery and determining effective solutions to meet stated objectives and goals. Objective, people-first approach to process and technology decision-making.

**Project Management:** Proficient with Microsoft Office applications and tools such as Jira, Github, and Kanban. Results-driven, focused on strategies for investment of resources, risks, and opportunities.

**Software:** Experience with several programming languages, including SQL, C++, Lisp, NodeJS, and Python. Full-stack web development on Amazon Web Services (AWS), Google Cloud Platform (GCP), and Heroku with frameworks such as React and Django.

**Communication:** Outstanding interpersonal skills, including technical training and skill-up, knowledge transfer for nontechnical personnel, and evaluation for professional development and preparedness.

**Service:** Demonstrated ability to identify and document operational issues, collaborate with stakeholders and principals, and implement customized business solutions that improve efficiency, throughput, and overall performance.