

# Jim Pollaro

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## Professional History

Software Engineer 9/23 -- present

Washington University, St. Louis, MO

- Lead development of Network Analysis Software, a program that runs statistical tests on fMRI data
- Improve performance and readability by:
  - Enabling interactive magnitude scaling on plots
  - New statistical tests
  - Adding a unit testing framework
  - Invoking an object-oriented scheme
- Remove redundancy in code

Full Stack Engineer 10/20 -- 11/22

Synthego, Menlo Park, CA

- Implement stock reservation system to increase fulfillment speed of new product type
- Refactor cell information dashboard using suggestions of sales team
- Update existing RNA synthesis workflows
- Technologies used: Django, Python, React.js, Redux, HTML

Software Engineer 11/18 -- 10/20

DrChrono, Sunnyvale, CA

- Integrate a new payment processor into existing payment system. Allows users to pay by credit card, credit card number, and saved credit card. System is PCI compliant
- Redesign and develop a billing profile system that is faster and more efficient than was needed due to scaling issues
- Add extra verification system for users who accept credit card payments as dictated by new laws
- Technology: Django, Python, Angular.js, MySQL, HTML, Javascript, GraphQL

Research Associate 8/07 -- 6/15

Advanced Imaging Research Center, Oregon Health & Science University, Portland, Oregon

- Perform maintenance on MRI machines - cryogenics, troubleshoot
- Write processing algorithms in Python.
- Plan and run studies on MRI scanners, including multi-site studies
- Organize, process, and analyze data for studies using DICOM and PACS
- Construct RF coils for use in MRI

Associate in Research 8/04 -- 5/07

Center for In Vivo Microscopy, Duke University, Durham, North Carolina

- Upgrade and perform maintenance on existing ventilators and physiological monitors
- Construct RF coils for use in MRI
- Plan and run studies on MRI scanners
- Perform maintenance on MRI machines - cryogenics, troubleshoot

## Education

M.S. Biomedical Engineering

*Purdue University, Indiana*

Thesis: Image-Space Estimation of Undersampled Respiration in Multi-Slice Functional Magnetic Resonance Imaging (fMRI)

B.S. Electrical Engineering

*Purdue University, Indiana*