

Thomas Matthew Reay

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Experienced Consulting Manager and Senior Software Developer with a strong technical background in application development, deployment, and optimization, with experience in managing client engagements, mentoring teams, and cross-functional collaboration.

Work Experience

Enthought

Scientific Software Developer

Senior Scientific Software Developer

Consulting Manager

Austin, TX | Tokyo, JP

March 2018 - Aug. 2020

Aug. 2020 - Jan. 2023

Jan. 2023 - Present

- Collaborated with clients in the semi-conductor industry to develop applications and technical solutions for domain-specific problems.
- Designed a web application for text and image search with 1,000's of users, supporting English, Japanese, Korean, and Traditional/Simplified Chinese, using React, Flask, Elasticsearch, Keras, and PostgreSQL.
- Designed a content extraction pipeline for processing Office and PDF documents, using Python, Java and the Libreoffice UNO API.
- Managed multiple deployments of a distributed web application in an Azure-hosted environment, using Ansible, Docker, NGINX, Grafana, and InfluxDB.
- Maintained a code base of 130K LOC for 5+ years, and taught that code base to the client's development team for future maintenance.
- Designed an SEM image processing desktop application with 100's of users, using Python, Keras, and Qt.
- Assisted with mentoring 5 separate cohorts of client engineers, as they learned Python and developed software to provide business value to their teams.
- Assisted with onboarding 15 developers to different aspects of the client engagement, and served as a mentor to 4 new hires.

Tokyo Office Manager

June 2020 - Present

- Provided general management oversight for an office with 7 employees.
- Coordinated two office transfers to accommodate for increased facility needs and growing staff size.

Applied Research Laboratories: Space and Geophysics Lab

Austin, TX

Research Engineering / Scientist Associate

Sept. 2015 - March 2018

- Built a software suite in Python for beam-forming and array signal processing.
- Produced visualizations of various geo-spatial data for academic conferences and publications.
- Assisted in the setup and operation of field experiments and data collection in challenging environments.
- Served as point of contact for testing and verification of software from three partner labs.

Student Technician

Nov. 2014 - May 2015

- Analyzed ionospheric data from the GNSS satellite network.

The University of Texas at Austin: Raizen Group

Austin, TX

Research Engineering / Scientist Associate

June 2015 - Aug. 2015

- Researched potential applications for graphene oxide structures.

Research Assistant

June 2014 - Oct. 2014

- Designed an atomic hydrogen source for use in an ultra high-vacuum environment.

Education

The University of Texas at Austin

Austin, TX

BS, Computational Physics (GPA: 3.88; Hours: 137)

Graduated with Honors, Spring 2015

Core Competencies

Application Development, Application Deployment, Domain-driven Design, Troubleshooting, Requirements Modeling, Process Enhancement, Optimization Techniques, Workflow Orchestration, Cross-functional Collaboration, Issue Resolution, Personnel Management, Technical Mentorship

Technical Skills

Programing Languages:

Python, Javascript, Typescript, SQL, Java, Fortran, C, L^AT_EX, Mathematica, MatLab

Tools and Frameworks:

React, Flask, PostgreSQL, Elasticsearch, Libreoffice, Keras, Docker, Ansible, Grafana, InfluxDB, Azure