

MICHAEL A. REES

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<https://github.com/reesmichael1> <https://git.sr.ht/~reesmichael1>

Education

2013 - 2017 Bachelor of Science in MATHEMATICS
Harvey Mudd College, Claremont, CA

Computer Skills

Languages **Desktop** C++, Qt, Python, Nim
Web HTML/CSS/JS, Flask, React, Elm, Go
Miscellaneous PostgreSQL, Linux administration
Digital typography (LaTeX/groff [mom macro set])

Work Experience

- Start: 1/2019* **Lead Developer**, LiturgiCal
Present • Working on developing tool for church musicians to plan weekly repertoire
• Written in the Go programming language
• <https://liturgical.net>
- Start: 6/2017* **Junior Analyst**, Saracen Energy Advisors, *Houston, TX*
End: 12/2018 • Managed data platform (written in Python), adding and maintaining scrapers and importers for hundreds of data sources
• Conducted analytical studies of power markets and the transmission grid to better understand observed behavior
• Built miscellaneous tools to assist with internal processes as necessary
• Oversaw development of an internal tool to visualize data (written in Java) that was used throughout the company
• Handled frequent requests for new features, tools, and data sources
• Built internal web pages to visualize data, market trends, and status notifications
- Start: 5/2016* **Student Researcher**, Dept. of Biology, Harvey Mudd College, *Claremont, CA*
End: 7/2016 • Constructed a mathematical model (using simulation and analytical techniques) describing the optimal perching height of a foraging lizard
- Start: 6/2014* **Software Engineering Intern**, Originate, Inc. *Westwood, CA*
End: 8/2014 • Developed iOS apps for both Mobile Gaming, Inc. and Ticketmaster
• Fixed many bugs in an existing codebase
• Expanded test coverage to include automated integration testing
• Implemented new features (such as a leaderboard for game rankings)

Harvey Mudd College Mathematics Clinic

- Start: 8/2016* **Saracen Energy**, Project Manager
End: 5/2017 • Led a four-person team of Harvey Mudd College students
• Developed (and implemented in Python) a mathematical model to estimate the flow of power through the U.S. power grid using the price of power at thousands of points within the grid
• Received John Greever Mathematics Clinic Prize for most outstanding individual contribution to a clinic project among all Harvey Mudd mathematics clinic students

Hobbies and Interests

- Playing the pipe organ (<https://noeontheend.com/organ>)
- Tinkering with my Raspberry Pi
- Music composition and engraving