

Jonathan Perinetti

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Summary

Applied mathematics background, full-stack engineer, team player, excellent communicator

Skills

- Frontend: HTML, CSS, React
- Backend: Node, Express, MongoDB, SQL
- Languages: Java, Python, Javascript, C++
- Libraries: Numpy, Pandas, SciKit Learn
- Mathematics: Probability/Statistics, Linear Algebra, Calculus
- Machine Learning: Feature Engineering, Regressions, Random Forests, K Means Clustering, SVM
- Other: Git, Github, Data Structures and Algorithms

Projects

- Automotive Maintenance Scheduler | *HTML, CSS, Javascript, Node, Express, MongoDB*
Built full-stack app using MVC design pattern to track maintenance items with calendar
- Spotify Playlist | *React*
Constructed website that consumes Spotify API to search for songs and create playlists
- Firefox Bookmark Exporter | *Python, BeautifulSoup*
Built independent executable to export a single bookmark folder group from Firefox

Education

PhD – ABD **Applied Mathematics** **Arizona State University**

- Coursework: Real Analysis, Partial Differential Equations, Numerical Analysis
- Programming Coursework: Scientific Computing, Applied Linear Algebra
- Python: Model spectral absorption in stellar atmospheres
- MATLAB: Implement Householder and Gram-Schmidt algorithms to decompose matrices
- MATLAB: Design quantum physics software to numerically solve Schrodinger Wave Equation

Master of Arts **Mathematics** **Arizona State University**

- Coursework: Numerical Analysis, Differential Equations
- Programming Coursework: CSE 210 - Data Structures and Algorithms (Java)
- Minor: Physics

Bachelor of Science **Mathematics** **Stanford University**

- Coursework: Complex Analysis, Group Theory, Combinatorics
- Programming Coursework: C, C++
- Minor: Classical History, East Asian Studies

Employment

Assist. Professor in Teaching **Arizona State University**

- Courses Taught: Algebra, Calculus I - III, Finance, Probability and Statistics
- Compose lectures while managing 500-600 students per semester
- Pilot online courses and software environments
- Train faculty on various software platforms
- Received: Professor of Impact Award (2023)
- Nominated: CLAS Teaching Award (2018)