

# Joshua Cook

+13104331646 // [blog](#) // [github](#) // [@joshuacook](#) // [me@joshuacook.me](#)

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## Education

- 2014-2015**      **Bachelor of Science, Mathematics** Cal State Northridge (Northridge, Ca)  
*Senior Thesis:* **Computational Methods in Molecular Quantum Mechanics**  
*Senior Project:* **The Zernike Polynomials**  
*Poster Presented:* **Applications of Imaginary Time Propagation Method in Material Research**  
Funding provided by National Science Foundation through **PREM** Grant.
- 2012-2014**      **Associate of Science, Physics** Santa Barbara City College (Santa Barbara, Ca)

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## Experience

- 2015**      **Software Quality Assurance Engineer** Invoca (Santa Barbara, Ca)
- Perform blackbox, whitebox, system and load testing.
  - Plan, develop, and iterate automated testing suite.
  - Develop Ruby Gem SIP client.
  - Build command line tools for use in development and testing.
- 2014-2015**      **Scientific Software Engineering Intern** Lab of **Dr. Jussi Eloranta**  
Cal State Northridge, Department of Chemistry and Biochemistry (Northridge, Ca)
- Planned, developed, and iterated new features for computational software suite.
  - Developed bash tools for use in development environment.
  - Trained others in software development process.
  - Configured and maintained student Linux workstations.
- 2012-2014**      **Full-Stack Web Developer** Phylia, De M. (Remote)
- Solely responsible for all development and maintenance.
  - Scaled seamlessly from \$50,000 in annual sales to \$1 million in annual sales.
  - Implemented all front end design and performances features.
  - Iterated site through two distinct design revisions.
  - Iterated site through two distinct infrastructure changes.
  - Responsible for development, staging, and production environment maintenance.
  - Managed SQL Database and created routine database backup and maintenance jobs.
  - Wrote custom PHP scripts for integrations with shipping (FedEx, UPS, drop-shipper) and accounting (QuickBooks) processes.

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## Technical Experience

Apache, C, Clojure, git/github, L<sup>A</sup>T<sub>E</sub>X, Mac OS X, MySQL, \*nix, Python, Ruby, shell

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## Additional

Have run five marathons (4:20 personal best).  
Have bicycled from Ventura to San Francisco.  
Have bicycled from Talinn, Estonia to Helsinki, Finland.  
Have visited 39 states.