Paul Nickerson

Curriculum Vitae

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Experience

2014–present   **Research Assistant, Biomedical Engineering**, *University of Florida*, Gainesville, FL.
- Analyzed medical data using state-of-the-art statistical techniques and machine learning algorithms to glean insights and develop smarter healthcare strategies.
- Researched novel algorithms and technologies for making sense of the growing volume of medical data and helped write manuscripts to disseminate new findings.
- Developed and deployed data-mining applications on UF's supercomputer, HiPerGator, the largest supercomputer in Florida.

2012–2013   **Senior Software Engineer**, *Wear Interactive*, Gainesville, FL.
- Led a talented team of developers to develop and launch products under strict deadlines and shifting client expectations.
- Navigated the whole stack required for product launches, including design and mockup, coding, systems administration, QA, and business development.
- Migrated and deployed client applications to cloud-based hosting environments, bringing down costs and improving application reliability.

2009–2012   **Data Scientist**, *Grooveshark*, Gainesville, FL.
- Built and maintained large scale analytics systems to mine Grooveshark's billions of song plays for billing purposes and user-facing features.
- Routinely analyzed massive data sets to help executives make decisions.
- Led a team of developers and designers to build and successfully launch Grooveshark's music analytics offering, Beluga, which reveals correlations between music consumption and demographics by linking terrabytes of usage data using statistical techniques. Front page of reddit.com and Hacker News (Beluga experienced zero downtime during this large traffic spike).
- Taught classes related to web development and scalability at the Grooveshark University.

2006–2010   **Firefox Security Analyst**, *Mozilla Corporation*.
- Developed innovative strategies for testing and securing the Firefox web browser.
- Effectively worked remotely while maintaining a high level of productivity and communication with supervisors.
- Identified high- and low-level security flaws, wrote test cases, and helped fix them.
- Delivered conferences presentations addressing emerging threats and secure development strategies.

Technical skills

Languages	C++, Python, SQL, JavaScript, PHP, BASH, LaTeX
Technologies	Hadoop, AWS, MPI, IPython Notebook, Git

Education

2012–2014 **Bachelor's Degree, Biochemistry**, *University of Florida*.
Volunteered in Dr. Edison's lab (College of Medicine) designing predictive models for metabolomics analysis using Liquid Chromatography-Mass Spectrometry and Nuclear Magnetic Resonance. Also worked in Dr. Rashidi's lab (Biomedical Engineering) applying statistical and machine learning techniques to medical datasets - primarily vital sign time series - to develop intelligent healthcare strategies.

2009–2012 **Associate's Degree**, *Santa Fe College*.