

William Petersen

Education

- 2008–2012 **BS in Computer Science**, *American University*, Washington, DC.
Concentration: Biomedical Science
Minor: Biology
GPA: 3.5, *cum laude*

Experience

- 2013–present **Freelance Programmer**, Washington, DC.
Worked as a contractor on several projects, primarily building websites.
- Built <http://www.taviers.com>, a high-end luxury goods marketplace.
 - Wrote custom Wordpress plugins and widgets.
 - Built Wordpress themes from mockup designs.
- 2011–present **Chief Programmer, Co-Founder**, *TextReserve, Inc*, Washington, DC.
Developed <http://www.swapdistrict.com>, a website that helps users exchange goods locally.
- Built server using *Ruby on Rails* framework.
 - Wrote HTML, CSS, and JavaScript used in initial launch.
 - Designed SQL tables, views, and queries for matching users by inventory and demand.
 - Wrote algorithm to sort results using relevance and standard deviation of sales rank.
 - Built resource adapters to give *Ruby on Rails* partial OData compatibility
- 2011–2012 **Chief Programmer**, *Fydo Enterprise, LLC*, Washington, DC.
Developed a prototype Android application which gave app recommendations based on the user's schedule, searches, and previously installed applications.
- Built an API and server using Python and the Django framework.
 - Built a functional Android application which communicated with the server.
- 2010–2011 **Research Assistant**, *American University*, Washington, DC.
Conducted research in computer vision under Dr. Daniel Fleck, with a focus on image matching.
- Wrote structure matching program using *OpenCV* library.
 - Wrote tracking program to identify and follow visual patterns in live video streams.

Technical Skills

Professional Experience

- languages Java, Python, Ruby, PHP, JavaScript
technologies Linux, Android, Ruby on Rails, Node.js, Wordpress, MySQL

Academic Experience

- languages C, C++, Perl, Scheme, x86 Assembly