

Bernard Simon
1714 Edgewood Rd. #A
Parkville, MD 21234
Home: (410) 882-4706
Cell: (443) 823-8819
bernie.simon@gmail.com

Summary

An experienced software developer well versed in modern development tools and practices. Experienced in web application design, database backed applications, and common web and network protocols at a programming level. Understand good web design principles such as REST, statelessness, and idempotency. Use modern development techniques including OO design, unit testing, and version control.

Technologies

Databases: MySQL, Sybase

Languages: bash, C, Fortran, Java, Javascript, Perl, and Python

Operating Systems: Linux, OS X, Solaris

Platforms: Apache, Tomcat, Zope

Version Control: CVS, Subversion, git

Experience - Space Telescope Science Institute

IT Division - Web Developer

Developed Python software that runs under Zope, a content management system used at the Space Telescope. Debugged and patched problems with Zope Python internals, a complex and poorly documented code base. Wrote Java application that runs under Tomcat server. Wrote applications that used MySQL and Sybase databases as a persistent data store. Wrote Perl parser that converted between Wiki formats, to migrate from one Wiki to another. Developed front end code for web applications using HTML, CSS, and JavaScript.

Scientific Software Group - Application Developer

Helped design and write the Calibration Database system, including the C code which added calibration files to the database. Wrote statistics analysis package for astronomers. Wrote the synthetic photometry (synphot) package.

Education

University of Maryland, College Park

Bachelor of Science in Physics and Astronomy

References

Gladly provided upon request.