Andrew Norman

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Address and phone number redacted for public résumé.

Summary

Proficient in problem-solving. Methodical by nature. Very interested in programming, mathematics, and all other logic-oriented fields.

Experienced in PHP, JavaScript (including jQuery), MySQL, PowerShell, BASH, Vim, and other technologies. Non-professional experience in Python 3, Dart, and Node.js. Some exposure to Java, C/C++, C#, and Ruby, among others. Always eager to learn new things.

Technical Proficiencies

- Programming languages:
  - PHP: Everyday use at Paycom and Carpay.
  - JavaScript (including jQuery): A great deal of browser-side JS in both work projects and home projects.
  - Visual Basic for Applications: Many client-specific projects at Paycom and specific projects for coworkers at Chesapeake.
  - Python 3: A great deal of non-professional work, some of which is viewable on Github.
  - Dart: Some non-professional work for personal projects.
  - C#: Developed a script at Paycom to convert Excel spreadsheets to CSV files, and developed a Windows Forms project called "Ant" that is available in GitHub.
  - Node.js: Some non-professional work for personal projects, and a small amount of experience with Node.js running on AWS Lambda.
- SQL
  - MySQL/MariaDB: Frequent use at Paycom, Carpay, and home projects.
  - SQLite: Some use in home projects.
- Markup languages:
  - HTML/CSS
  - LaTeX
- Software:
  - Vim (preferred editor)
  - GNU Screen
  - Both Windows and Debian-based Linux workstations
  - Ubuntu Server Edition

Work Experience

May 2017 to Present – Software Developer for Carpay

- Using the MVC framework CakePHP for full stack work.
- Writing and maintaining automated tests with PHPUnit.
- Writing VoiceXML applications for a voice browser to interact with our payment system.
- Interacting with third-party vendors via API calls including payment system services and text and email services.

September 2015 to February 2017 – Software Developer 1 at Paycom

- Writing and maintaining code for the "Performance and Compensation" module, primarily that code relating to performance reviews.

- Extensive use of PHP, JavaScript, and MySQL. Worked primarily in a Vim environment and regularly used both VimScript/VimL and PowerShell.
- Some exposure to C# in a typical Visual Studio environment.

- Writing software in VBA for Excel to convert data in various formats to database-friendly CSV files.
  - A great deal of experience in Excel and the object-oriented language in MS Office, Visual Basic for Applications.

June 2014 to August 2015 – Petroleum Engineering Technician at Chesapeake Energy Corporation

- Writing software as-needed for petroleum engineers, using VBA with Excel and Access.
  - Experience using a single script to automate functions from multiple programs (i.e., pull data using Access, create a spreadsheet in Excel, and send using Outlook).
- Performing various technical tasks, usually involving Spotfire.

January 2013 to May 2014 – Lecturer at Oklahoma State University

- Teaching Trigonometry.
- Teaching a freshman math class called "Functions and Their Uses."

October 2010 to December 2012 – Teaching Assistant at University of Central Oklahoma

- Teaching an intermediate algebra class.
- Tutoring undergraduates in classes such as College Algebra, Trigonometry, Single and Multivariable Calculus, Abstract Algebra, Foundations of Advanced Mathematics, Linear Algebra, and others as needed.

June 2009 to October 2010 – Employee for George Williams, Oil and Gas Attorney, Edmond, OK

- Creating maps of sections based on legal descriptions using CAD graphics programs, as well as matching legal descriptions from leases, mortgages, deeds, etc. to ownership reports.
- Tabulating instruments, including Oil & Gas Leases, Mortgages, and Rights of Way/Easements.
- Troubleshooting errors in Excel spreadsheets.
- Miscellaneous tasks as needed for the formulation of the legal opinion.

Education

University of Central Oklahoma (UCO), Edmond, OK
Master of Science in Applied Mathematics, received degree on December 14, 2012 with overall GPA of 3.90.
Bachelor of Science in Mathematics, received degree on December 11, 2009 with overall GPA of 3.68.

Honors

- "Best Campaign" award from Paycom, 2016 for contributing to FLSA – Overtime Expansion project.
- "Outstanding Graduate Student Award" from the UCO Department of Mathematics and Statistics in 2011.
- Member of Golden Key International Honor Society.
- Member of Alpha Chi Honor Society.
- Member of Gamma Beta Phi Honor Society.

Special Abilities

- Scripting languages:
  - BASH: Everyday use in personal projects and used extensively in projects involving Linux servers.
  - MATLAB/Octave: Used extensively while in academia.
  - PowerShell: Everyday use at Paycom.
  - Vimscript: Used extensively in multiple contexts, as Vim is my preferred editor.
- Mathematical abilities:
  - Cryptology (which includes Number Theory)
  - Differential and Integral Calculus (Both Single- and Multivariate)
  - Linear Algebra

- Numerical Analysis
- Real and Complex Analysis