John Wong

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SUMMARY OF QUALIFICATIONS

Broad interdisciplinary computational, programming, coding, and data analytic experiences. **Demonstrated** ability in rapidly adopting unfamiliar languages, frameworks, and methodologies. **Familiarity** with industry practices such as agile development cycles and MVC design pattern. **Proven** track record in tearing down existing code for debugging and performance tune-up.

EDUCATION

University of Colorado at Boulder Ph.D. (projected Aug'13), M.S. Atmospheric and Oceanic Sciences	2008 - 2013
University of Arkansas, Fayetteville M.A., B.S. Physics (Computational); B.S. magna cum laude Mathematics (Applied)	2003 - 2007

SELECTED PROJECTS

Nested Regional Climate Model Assisting in the development of a next-generation climate model.	2012
Lightning parameterization at the convective scale Implementing scale-aware lightning parameterization for weather models.	2010

Chemical kinetics with OpenCL (class project)	2010
Implemented a Rosenbrock chemistry model with OpenCL across architectures.	

Transport of chemicals assessed with models and satellite observation	2008
A collaboration between scientists from NCAR, CU, NOAA, & NASA JPL.	

Improvement to Matlab code for DNA data analysis (hired position)	2007
Vectorized and debugged Matlab codes for processing digital signals.	

Web-based application for generating "concept inventory"	2006
Built from the ground up a website for hosting, generating, & managing assignments.	

Sourcecode contributions

Refactoring of lightning NOx driver — NCAR's WRF-Chem v3.5 Refactoring old implementation and mediating collaborated contributions.	2012
Lightning NOx emission parameterization — <i>NCAR's WRF-Chem v3.4</i> Implemented lightning NOx emission option for convective-scale simulations.	2011
Online tendency diagnostics — NCAR's WRF-Chem v3.2 Developed module for decoupling tendency diagnostics for chemical species.	2009

TECHNICAL SKILLS

Languages: C/C++, Java, Python, Objective-C, Fortran, Javascript, PHP, SQL Frameworks and libraries: OpenCL, MPI, OpenMP, Prototype, Dojo Toolkit IDEs and tools: vi, Xcode, Instruments, Git, subversion Data formats: XML, JSON, NetCDF, HDF5, GTFS

Other tools: IDL, Matlab, Mathematica, LATEX, basic *NIX scripting