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TIMOTHY PAUL JURKA

EDUCATION

University of California, Davis – Bachelor of Science, Computer Science, 2010
Minor, Quantitative Biology and Bioinformatics

EXPERIENCE

SOFTWARE DEVELOPER, PEEKFEED DAVIS, CA 2009 - Present

Contracted by Peek Inc. to develop an RSS to email solution for their mobile handset. Worked part-time during college to design and implement a web application with full scheduling options that sends RSS updates via email. The software is currently being developed, with a launch targeted for September 2010.

peekfeed.com ■

SOFTWARE DEVELOPER, UC DAVIS & UNC-CHAPEL HILL DAVIS, CA 2008 - Present

Collaborated with political science professors at UC Davis, UNC-Chapel Hill, and UChicago to design and write data mining software. Several applications were written using Python, Java, and AppleScript to find, collect, and process data for research into social networks, the capital punishment debate in the US, and mainstream media trends and public perception.

ucdavis.edu ■

IT CONSULTANT, BUMP TECHNOLOGIES INCORPORATED TORONTO, ON 2008 - 2009

Served part-time as an IT consultant at a University of Toronto DGP research laboratory startup that was subsequently acquired by Google. Corresponded with industry contacts to promote the beta, managed beta invitations, and condensed bug reports, crash logs, and feedback into digests used by the development team.

bumptop.com ■

TEACHER, SAINT FRANCIS HIGH SCHOOL MOUNTAIN VIEW, CA 2007 - 2009

Taught two freshman-level classes over summers: speech & debate and study skills. Curriculum covered methods of research, formal speaking, speechwriting, and policy debate. From 2007-2008, worked as a teaching assistant and substitute teacher for the same subjects.

sfhs.com ■

SKILLS

I have written several web applications using the LAMP stack, a couple of which were created for corporations or universities. Fifteen years of experience with web design (HTML, CSS) and five years with web application development (Python, JavaScript/JQuery, MySQL). Three years of experience programming in Java/Android, C/C++, and BlitzMax, and exposure to parallel programming using CUDA, OpenMP, and MPI, as well as hybrid models.

Additional training in quantitative biology and bioinformatics, including mathematical modeling, phylogeny reconstruction, and algorithm design/analysis.

RELEVANT COURSEWORK

Algorithm Design & Analysis

Computer Networks

Computer Security

Parallel Computing

Theory of Bioinformatics

Dynamic Models in Biology

Phylogenetics & Macroevolution

Independent Study for Advanced Undergraduates