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July 11, 2013

Kevin Koy
Executive Director
Geospatial Innovation Facility

Dear Mr. Koy:

I am interested in the **Geospatial Web Application Programmer** position that was posted on the Geospatial Innovation Facility website. My resume is enclosed for your review. Given my related experiences and technical capabilities I hope you consider my application for this job. My skills and knowledge are an ideal match for this position.

I have seven years of experience in content framework application development for the UC Berkeley Libraries. Primarily this experience has been in developing Drupal-driven applications, but I believe my evolving understanding of best-practice development methods are applicable across many different programming languages and frameworks. These approaches include user-centered design, test-driven development, git-enabled workflows, and behavior driven development. I also routinely use Python in data intensive programming often creating scripts for data acquisition, manipulation, and storage. I have a basic understanding and usage of Python frameworks including Django and Flask.

Along with these technical aptitudes, I bring a deep understanding of the campus domain especially with respect to the academic research enterprise in the social sciences and humanities. I'm actively engaged with campus partners around research technologies, API development, and the recent activities in articulating needs for data science skills on campus. I also support researchers daily with data research needs – including GIS inquiries – and frequently help and teach students and colleagues who are less technically inclined. Finally, I have experience in user experience design and have led a team at the UC Berkeley Library designing test protocols for improving the library website.

I look forward to talking to you more about my experiences and how they map to the desired skills and capabilities expressed in the posted position on the GIF website.

Sincerely,

Tim Dennis

TIM DENNIS

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Education

- **UC Berkeley School of Information**—Berkeley, CA
  M.S. of Information Management and Systems

- **Millsaps College**—Jackson, MS
  B.A. in Sociology

Experience

- **Library Data Lab**—Berkeley, CA
  Research Technology and Services Specialist (August, 2006–present)

  – Build numerous Drupal sites implementing diverse domain requirements with best-practice approaches using behavioral driven development (Gherkin, Behat, Mink).
  – Write Python scripts for data acquisition, manipulation, and storage.
  – Provide numeric data/statistical information consultation to students and faculty.
  – Part of core team to open Library Data Lab in 2007.

- **UC Berkeley Library**—Berkeley, CA
  Web, Electronic, and Government/Numeric Data Specialist (May, 2002 - August, 2006)

  – Selected, installed, maintained, & customized web collaboration applications including wikis, blogs, & messaging.
  – Administered library development server including creating and managing accounts, monitoring logs, updating applications, and monitoring usage and security logs.
  – Managed multiple cross-functional teams in developing and implementing new library web based services.
  – Trained users and created instruction materials on adoption of new collaboration tools.
  – Provided numeric data/government information reference to students and faculty via IM, email & face-to-face.

- **Information & Service Design (formerly Center for Document Engineering)**—Berkeley, CA
  Usability Specialist/Researcher (September, 2005 - May, 2006)

  – Completed needs assessment for academic web pattern library application.
  – Developed a pattern library using participatory design techniques, personas, scenarios, lo-fi and hi-fi prototyping.
  – Conducted usability analysis and user testing on patterns and library interfaces.
  – Developed the front-end for web pattern application using parallel development environments in JSP, XSL, XML, & BerkeleyDB XML and PHP, CSS, XHTML, MYSQL, & JavaScript.

Skills

- **Statistical Software**

  - Intermediate STATA & R
  - Beginning Pandas

- **Scripting Laguages:**

  - Intermediate scripting skills: Python, PHP
  - Frameworks: Drupal, Flask, Rails, Django
  - Intermediate HTML & CSS
  - Intermediate SQL
  - Databases: MySQL, SQLite, PostgreSQL
  - Intermediate version control skills: SVN, Git (github id: jt14den)

- **Sys Admin**

  - Intermediate unix/linux systems & tools
  - Intermediate understand Linux package managers
  - Intermediate experience with LAMP configuration & server setup

- **UX**

  - Information Architecture: Taxonomy development, card-sort
  - User Research: User interviewing, task analysis, persona & scenario development
  - Design: Paper prototyping, wire-frames
  - Keep up-to-date by attending various UIE webinars

- **Communication**

  - Offered over 15 workshops on technical topics for the library staff training program
  - Demonstrated ability translate user needs to programmers and likewise, to translate technical topics to novice users
  - Highly effective in cross-functional team settings

Selected Instruction

- *Introduction to R*. IASSIST 2013
- *Getting started in Drupal*. UC Berkeley LibTech. 2010.
- *Using the Content Construction Kit (CCK) in Drupal*. UC Berkeley LibTech. 2010.
- *Drupal Study Group*. UC Berkeley LibTech. 2009.
- *Intro to Google Analytics*. UC Berkeley LibTech. 2009.
- *Google Data API*. IASSIST 2008. May 27, 2008.