

David McInnis

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Dear Company Representative,

After spending 7 years in the Air Force as an F-16 Avionics Technician and Supervisor, I earned a Bachelor of Science in Professional Aeronautics from Embry-Riddle(2010) and a Master of Science in Computer Science from Eastern Washington University(2018). I continually strive to meet business needs while continually improving the quality, readability, and maintainability of my software code.

The following offers a few highlights of my qualifications:

- **PostgreSQL Database background:** Performed elaborate database migration through web-scraping, data reconstruction, schema creation, and data insertion. Modified database schema in response to changing project requirements. Mostly used SQLAlchemy ORM for database interaction, but used raw SQL statements for scalar operations.
- **Ability to learn / master new skills with minimal help:** Chinese Calligraphy character detection (Master's Thesis) required me to independently learn and deploy a Let's Encrypt SSL Django Web-server with custom JavaScript front-end for precise and efficient bounding-box drawing around over 100,000 individual Chinese calligraphy characters in over 2000 high-resolution images. Used Agile process to improve user engagement by adding a graphical progress chart based on user feedback. Utilized user-validated data to re-train a machine learning filter for improved noise-filtering performance from 64% to 79%.
- **Software Teamwork:** Active maintainer of 19 Arch-Linux software packages managed using Git as a deployment tool. Used GitHub pull requests to dramatically improve Unicorn documentation instructions for connecting with Systemd managed Unix sockets. Improvements include sample configuration files and detailed accompanying explanation.
- **Team Player:** I pay close attention to my colleagues and work to emulate the best-practices of those around me. I volunteer my expertise where appropriate and ask open-ended and clarifying questions to help build actionable shared-knowledge.
- **Bias toward difficult problems:** Professionally and personally, I always volunteer for projects which stretch my abilities. In my logistics job I relish the challenge of quickly packing randomly shaped boxes into the smallest possible space.

Thank you for taking the time to review me. I am confident that my focus on business needs, commitment to software quality, readability, and maintainability make me a good fit for my new team at your company.

David McInnis