

Kenneth N. Harmon

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Skills:

- **Technical:** Python, Flask, Fastapi, HTML, CSS, SASS, TailwindCSS, JavaScript, React, SQL, NOSQL, Node, Git, Google Cloud, APIs, Microsoft Office (Excel, Word, PowerPoint)
- **Communication:** Writing, Editing, Proofreading, Public Speaking

Relevant Work History:

- **Freelance Software Developer, Independent, Bothell, WA**
 - November 2017 – June 2020
 - Built a production-grade Python REST API with JWT authentication and MongoDB, enabling secure device integration and user access control in a custom WSGI application.
 - Built a complete API ecosystem with device communication endpoints supporting real-time call event handling and routing instructions.
 - Designed and implemented a flexible pattern-matching rule engine supporting user-defined and predefined system rules (exact, wildcard, robocall list, default, and international call handling) to enable dynamic call behaviors such as blocking, voicemail, forwarding, and interactive menus.
 - Created a scheduled cron job to auto-update robocall-blocking lists, ensuring up-to-date protection against unwanted calls.
- **Freelance Software Developer, Co-founder, DogPackDesign, Bothell, WA**
 - September 2016 – November 2017
 - Developed a Python API client using Flask and Requests to interact with the Green Button REST API for customer energy data retrieval.
 - Designed and built a Python-based web scraping tool with Scrapy to automate real estate data extraction, including authentication workflows and structured property analysis.
 - Designed and developed responsive web applications, utilizing HTML, CSS, JavaScript, jQuery, and Bootstrap to create dynamic user interfaces and enhance usability.
- **Part Time Office Assistant, Law Office of Rod Harmon, Bothell, WA**
 - September 2013 – September 2016
 - Automated real estate and legal data collection by transitioning from manual research to Python-based web scraping, then developing a desktop Electron app with Selenium to extract and structure data into Excel reports for business use.
 - Served legal documents and provided office support.
- **Teaching Assistant, SUNY-Albany, Albany, NY**
 - August 2010 to May 2013
 - Assisted atmospheric science professors with teaching classes, running study sessions, writing & proctoring exams, grading homework, and tutoring undergraduate and graduate students.
- **Meteorologist, Air Force Weather Agency, Offutt Air Force Base, NE**
 - June 2009 to June 2010
 - Collected and applied statistical analysis to dust transport model output, globally distributed surface weather observations, and enhanced satellite imagery for the purpose of improving dust storm forecasts to aid U.S. military operations worldwide.
 - Managed prototype products web page with HTML and JavaScript.
 - Awarded Junior Civilian of the quarter (2nd quarter 2010) for both the 16th Weather Squadron and the 2nd Weather Group.

Additional Work History

- **House Manager/Caregiver, Bothell, WA**
 - June 2020 – Present
 - Household management duties including supervision of cleaners, kitchen management, food preparation, laundry, gardening, and household purchasing.
 - Caregiving for sick and elderly relatives: transportation, supervision of medical care, meal preparation, etc.

Education

- **SUNY-Albany, Albany, NY**
 - August 2010 to May 2013
 - Completed required coursework for PhD in Atmospheric Science. Studied and analyzed atmospheric aerosol/weather relationships using FORTRAN and Bash scripts and specialized visualization software as a research assistant. Proofread and edited scientific papers.
 - Co-author of: Ma, X. et. al. “Comparison of AOD between CALIPSO and MODIS: significant differences over major dust and biomass burning regions.” *Atmospheric Measurement Techniques* 6.9 (2013): 2391-2401. <https://amt.copernicus.org/articles/6/2391/2013/>
- **Bachelor of Science in Atmospheric Science, Creighton University, Omaha, NE**
 - August 2006 to May 2010
 - Minor in Mathematics
 - “Weather Break” radio commentator. Researching, writing, and recording short radio shows about weather and technology.
 - Public Relations Officer and Secretary, Creighton Atmospheric Science Society, 2008-2010.
 - Office Assistant for both Creighton University Press and Residence Life.

Other Skills/Interests

- Gourmet baking, glass art, Community Emergency Response Team training.