

Steve Warner

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Experience

Senior Software Engineer Ridecell | San Francisco, CA 1/2020 – present

- Lead engineer on a vehicle camera POC project using Django and S3. Defined engineering requirements, developed a solution, assigned work, and implemented some of the backend APIs.
- **Reduced operating expenses by an estimated \$180k per year** by optimizing the rental flows.
- Lead engineer on a GPS accuracy improvement feature using Django and iOS. Analyzed test data, created algorithms, designed and implemented the APIs, and kept stakeholders informed.
- Investigated and proposed fixes for a serious bug with the carsharing hardware.
- Collaborated with mobile app developers to improve the reliability of our Bluetooth implementation.
- Reviewed code changes and product proposals.
- Investigated and raised SEV1 incidents as part of the hardware team on-call rotation.

Software Engineer Ridecell | San Francisco, CA 5/2019 – 1/2020

- Traveled to customer sites to educate their executives on the technical details of the hardware solution.
- Empowered other teams by teaching classes on the hardware.
- Made an interactive visualization to show historical and predicted usage based on geographic region.
- Demonstrated machine learning (clustering) could identify habitual customers based on the time of day and where they started and ended their rentals.
- Used Pandas to segment customers based on what day of the week they rented vehicles.
- Created dashboards for accounting so they could accurately charge customers.
- Wrote a data pipeline recorder so that we can create alerts on specific data pipeline events.
- Fulfilled ad-hoc data requests using SQL and Pandas.

Support Engineer Ridecell | San Francisco, CA 1/2017 – 5/2019

- Relentlessly debugged issues, **earning the company Honey Badger award for “unmatched tenacity delivering great results for a customer or Ridecell”**.
- Streamlined debugging by developing an interactive visual timeline tool from Splunk logs. Enhanced the tool with analysis capabilities so that it found and highlighted already-known issues.
- Set and met expectations in daily meetings with customers. Communicated their pain points and priorities to product and engineering.
- Traveled on-site to meet with customers (their call center, fleet maintenance, dispatchers).
- Developed bug fixes which prevented more than \$4 million in wrongful charges.
- Created alerts and dashboards for myself and the other carsharing team on-call engineers.
- Interviewed, trained, and mentored new engineers, allowing my team to transition to the data team.

Application Engineer Dassault Systèmes Simulia Corp. | Johnston, RI 7/2010 – 12/2016

- Supported the Abaqus software package (modeling, customization, automation, installation).
- On-site engineer at P&G, providing technical support for razor blade drop test simulations.
- Instructed more than twenty training courses on Abaqus both at customer sites and at HQ.
- Coded Abaqus subroutines in FORTRAN and C++ to decrease job drop-test run times, reduce output database file sizes (by a factor of ~20x), and introduce a new custom factor-of-safety output variable.
- Developed and presented technical demonstrations to potential customers.

Research Assistant RPI Combustion Lab | Troy, NY 8/2008 – 7/2010

- Optimized MATLAB code and conducted elevated-temperature shock tube experiments.

Intern NASA Langley Research Center | Hampton, VA 6/2007 – 8/2007

- Automated rocket sonic boom prediction using FORTRAN and MATLAB.

Competencies

- Python, Django
- Pandas, matplotlib, Bokeh, Jupyter-notebook
- Postgres (SQL), AWS (S3, Redshift, Athena), Sumo Logic, Splunk

Education

M.S. Mechanical Engineering Rensselaer Polytechnic Institute | Troy, NY 12/2008 – 12/2009

B.S. Aeronautical Engineering Rensselaer Polytechnic Institute | Troy, NY 8/2005 – 12/2009

Publications

- H. Wang, **S.J. Warner**, M.A. Oehlschlaeger, R. Bounaceur, P.A. Glaude, and F. Battin-Leclerc, "An Experimental and Kinetic Modeling Study of the Autoignition of α -Methylnaphthalene/Air and α -Methylnaphthalene/n-Decane/Air Mixtures at Elevated Pressures", *Combustion and Flame* 157, 1976-1988 (2010).

Other

- California Explorer Search & Rescue (class of 2020 candidate)
- Wilderness First Aid (2019)
- CPR and AED for Adults (2019)