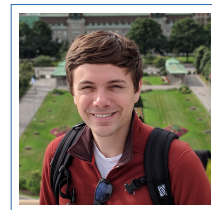


C. David Sanders

Software Engineer

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📍 davesque



Creative engineer looking to employ an expert-level knowledge of Python, a strong interest in deep learning, and a general love of all things tech. Let's build the future together.

Education & Coursework

- 2014–Present **Deep Learning Coursework**, Coursera, Online.
Deep Learning Specialization (Andrew Ng), Machine Learning (Andrew Ng).
- 2013–2017 **Engineering Coursework**, University of Colorado, Boulder, CO.
Calculus 2 & 3, Data Structures, Computer Systems, Linear Algebra, Discrete Mathematics, Algorithms, Principles of Programming Languages. 3.88 GPA.
- 2005–2009 **Bachelor of Arts**, University of Colorado, Boulder, CO.
Dean's list 7 out of 8 semesters. 3.78 GPA.

Skills

- Languages *In order of familiarity:* Python, Rust, Javascript, SQL, Scala, Haskell, Java, C++, Go
- Libraries NumPy, Pandas, OpenCV, Keras, Tensorflow, Scikit Learn, Django, Django REST Framework
- Misc. Tech. Vim, Bash, Tmux, Git, Docker, Salt Stack, Linux
- Misc. Skills Blockchain & Machine Learning

Open Source Projects & Contributions

- Rust Vyper Next generation, security focused smart contract language for the Ethereum blockchain.
- eth-abi Low-level encoding library for the Ethereum blockchain.
- web3.py RPC library for interacting with Ethereum clients.
- Trinity Premier Python-based Ethereum client.
- Simple JWT A JSON Web Token authentication plugin for the Django REST Framework.
- “s” A simple shell script manager.

Experience

- Jan 2020–Present **AI Algorithms Engineer**, *Unsupervised*, Boulder, CO.
Assist in development of internal tools for use in construction of advanced ETL pipelines.
- Mar 2018–Jan 2020 **Senior Software Engineer**, *Ethereum Foundation*, Remote.
Principal maintainer of the Rust Vyper compiler. Was also part of the “Snake Charmers” team within the Foundation that was focused on applied Python development and maintenance of open source Python projects. The Snake Charmers also collaborated with Foundation research teams to implement next generation protocol and smart contract research. This included work on the open source Python Ethereum client, Trinity, web3.py, and related libraries.
- Nov 2013–Mar 2018 **Senior Software Developer**, *Specialized Bicycle Components (Retül)*, Boulder, CO.
Developed REST API services for data collection from digital measurement devices. Services written in Python (Django Framework) and deployed with Docker on Heroku. Some services also deployed to cloud-hosted Linux VPS (configuration managed with Salt Stack). Used NumPy and Pandas libraries to implement proprietary search and data analysis routines. Administered all Retül department web services. Developed pressure point detection algorithm for pressure reading device. Built continuous integration pipeline using Docker and CircleCI. Researched deep learning techniques and possible applications. Mentored junior devs and conducted code review.

Interests

Technical	Deep Learning & Machine Learning, Blockchain & Distributed Tech, Mathematics, Programming Language Design & Theory
Musical	Classical Guitar, Indian Classical Tabla
Linguistic	Japanese (elementary proficiency)