Christian Oudard

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http://github.com/christian-oudard/

Summary

I solve problems by creating clear understanding, and then turning that understanding into software. I'm an experienced programmer, specializing in Python and full-stack web development. My other areas of interest include graphics, machine learning, and finance. On a personal level, I care deeply about communicating empathetically, in a way that respects the humanity of others. As far as topics outside of software, let's talk about math, physics, cognition, or biomechanics.

Skills

- **Languages:** Python, Ruby, Haskell, Shell Script JavaScript, SQL, HTML, CSS,

- **Libraries:** NumPy, TensorFlow, Django, Ruby on Rails, jQuery

- **Tools and Platforms:** Linux, Git, Puppet, Amazon Web Services (AWS), Google Cloud Platform (GCP)

Experience

- **Independent Software Developer**   *November 2017–Present*

    – Please ask me in person about clients and projects

- **Bonsai AI**   *Backend Developer*   *March 2017–October 2017*

    – Wrote Python code and tests to build the Bonsai reinforcement learning (RL) platform.
    – DevOps work, including server deployment and maintenance.
    – Worked with the AI research team to help implement recent RL research from DeepMind and others.

- **Disqus**   *Data Engineer*   *June 2016–December 2016*

    – Part of a three-person team responsible for a data analysis pipeline handling tens of millions of events per day. The pipeline is built using Kafka, Storm, S3, Hive, and Redshift.
    – Backend feature development in Python, including work on advertisement serving.

- **Infer Inc.**   *Full-stack Engineer*   *July 2015–September 2015*

    – Worked on Infer's main product which manages machine learning sales models.
    – Coded improvements to the CoffeeScript frontend interface as well as the Python backend.

- **TinyCo**   *Backend Engineer*   *September 2012–January 2014*

    – Coded complete rewrites of several major systems, such as the code deployment system and game configuration server.
    – Interviewed new employees to help grow the team from 3 to 8.
    – Mentored junior backend engineers and mobile engineers, especially in Python and Django.
    – Instituted the usage of better database migration practices, and better unit testing.

- **Scribd** *Software Engineer*   *January 2012–August 2012*

  – Worked as a Ruby on Rails and Javascript engineer on a team of 12.

  – Worked with a huge mysql database. We ran out of 32-bit unsigned primary keys on one of our tables.

  – Responsibilities included the Scribd Developer API, internal mobile client API, and the embedded document viewer.

- **PolicyStat** *Software Engineer*   *October 2008–January 2012*

  – Joined at a very early stage, when there was just the CTO, the CEO, and a single client. When I left, we had over a hundred hospitals as customers.

  – Did full-stack development, including server administration on Amazon AWS, Django backend, and web frontend using jQuery and CSS

  – With the CTO, completely rewrote the codebase from PHP to Python/Django.

  – Developed an algorithm for diffing structured documents in HTML.

Education

- **University of Louisville** *Bachelors of Computer Science*   *Fall 2004–Spring 2008*