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🔗 <https://jtrive84.github.io>

Relevant Experience

- 2017–Present **Actuarial Analyst - Reserving Analytics**, *CNA Financial*, Chicago, IL.
8to18 acquired Leaguevine and brought my co-founder and I on to lead their entire tech team. Architected a long term migration path of their old existing products into a more stable and scalable system. Hired interns and developers, helped set the path for most parts of the business, helped set the technical roadmap, worked on launching new products, managed existing products, and contributed to the primary existing code base which is in Rails.
- 2015–2017 **Actuarial Analyst - Commercial Pricing**, *CNA Financial*, Chicago, IL.
Built a scheduling system (<http://pacescheduler.com/>) for Fire Departments to schedule and manage their employees. Built a proprietary method to optimize the schedules based on inputs including the seniority of the employee, the times employees can work, the days and times the employees prefer, which roles each employee can take on, and how many shifts the fire chief ideally wants to give to each employee. Used a custom variant of projected gradient descent in the continuous space to solve a constrained linear least squares problem formulation.
- 2012–Present **Founder, President**, *Upkeep Charlie*, Greenville, SC and Chicago, IL.
Founded Upkeep Charlie (<http://upkeepcharlie.com>) with Stefan Hahn and Peter Barth, the managing director of The Iron Yard. Our company offers handyman services, lawn care services, and cleaning services to homeowners. Jobs can be booked online and our custom built backend scheduling system automates a good amount of the work required in scheduling and managing accounts. This backend is built in Python/Django, and integrates with payments (Stripe), email (IMAP/Gmail), text/phone/voicemail (Twilio), and chat (Olark).
- summer 2012 **Participant**, *The Iron Yard*, Greenville, SC.
Attended a 13 week startup accelerator program called The Iron Yard (<http://www.theironyard.com/>) in Greenville, SC. Leaguevine was one of 10 companies selected for the program out of over 350 applicants worldwide. The Iron Yard provided seed capital, tons of advisors, business interns, design interns, office space, and legal services in exchange for 6% equity.

- 2010–Present **Founder, CEO, Leaguevine**, Madison, WI, Chicago, IL, and Greenville, SC.
Developed the site <http://leaguevine.com> using Python and the Django framework. The business focuses on giving non-professional athletes their own online sports profile with access to real-time statistics applications to show off their accomplishments. Built the initial site myself, brought on a co-founder, raised seed capital, brought on interns and contract workers, cultivated a thriving group of developers who build products on our API, and sold the company in 2013.
- 2009–2011 **Research Assistant, University of Wisconsin - Madison**, Madison, WI.
Conducted research in remote sensing under Professor Mutlu Ozdogan with the assistance of Professor Jerry Zhu within the Centre for Sustainability and the Global Environment (SAGE). Worked on developing new statistical classification algorithms to utilize satellite images of varying spatial and temporal resolutions concurrently.
- summer 2009 **Intern, India Institute of Science**, Bangalore, India.
Worked at the Center for Sustainable Technologies primarily assisting other graduate students with various water quality projects. Traveled to villages 1-2 hours outside Bangalore to perform water quality analysis. Learned standard techniques for analyzing water samples and performing on site assessments.
- 2008–2009 **Project Manager, Engineers Without Borders**, Orongo, Kenya and Madison, WI.
Led the EWB-UW Madison Kenya project for one of my four years while being involved. Recruited and organized the beginning of the group, bringing in approximately 40 students the first year. Determined the direction of the project. Managed finances, funding, and logistics both in Madison and in Kenya. Wrote reports, documented our project, and presented our work at various venues. Traveled to Kenya four times for approximately 20-28 days each time.
- 2008–2011 **Webmaster, Engineers Without Borders**, Madison, WI.
Created a website from scratch (<http://www.ewbuw.org>) using the Drupal CMS. Used PHP, HTML, CSS, and MySQL to create dynamic pages that allow officers to update content quickly and easily. Taught future webmasters how to create and manage a simple website such as this one.
- 2007–2009 **Teaching Assistant, University of Wisconsin - Madison**, Madison, WI.
Was a teaching assistant for courses titled “Foundations of Scientific Computing”, “Machine Organization and Basic Systems”, and “Introduction to Algorithms.” Held weekly review sessions and office hours. Gave lectures while the instructors are out of town. Wrote and graded assignments. Proctored and graded exams.
- 2006–2007 **Undergraduate Research Assistant, UCLA**, Los Angeles, CA.
Worked for Professor Miodrag Potkonjak on hardware authentication problems. Wrote a complex C++ program using linear programming to solve whether or not a digital logic circuit contains unwanted circuitry inserted by an ‘attacker’.
- 2005–2007 **Webmaster, Tau Beta Pi, UCLA**, Los Angeles, CA.
Set up a LAMP (Linux, Apache, MySQL, PHP) server and created the website <http://tbp.seas.ucla.edu> using the Dragonfly CMS. Used PHP, MySQL, JavaScript, and HTML to write custom pages for logged in users to contribute content. Created a searchable, password protected collection of past examinations. Trained future webmasters.

2005–2007 **Webmaster**, *Smaug*, Los Angeles, CA.

Helped build and maintain a website for UCLA's Ultimate Frisbee team (<http://www.smaugultimate.com>). Created a PHP program to take human readable text output from a palm pilot statistics program and parse it to enter the relevant information into a MySQL database. Created dynamic pages for users to view team results and statistics.

2005–2007 **Lab Assistant**, *Automated Reasoning Group*, *UCLA*, Los Angeles, CA.

Assisted in the development of a Java based Bayesian Network tool called Samiam (<http://reasoning.cs.ucla.edu/samiam/>). Managed the server and website. Set up an additional website for privileged users for bug tracking and usage statistics. Assisted graduate students by writing testing scripts in Perl.

summer 2001, **Intern**, *PACE Systems*, Naperville, IL.

2003, 2004 Configured and assembled large numbers of PCs and servers as specified by high volume clients. Worked on customer service helping physicians of Illinois obtain and set up high speed internet. Helped maintain a staffing service website along with significant paperwork and data entry.

Technical Competencies

Proficiency Level from 1 (novice) to 10 (expert)

technologies

Technical Experience

Extremely Proficient With

languages C, C++, Python, Ruby, JavaScript, Matlab, HTML, CSS, JSON

technologies Django, Rails, Drupal CMS, MySQL, SQLite, L^AT_EX, Bash Scripting, Git, Vim, PostgreSQL, jQuery, Bootstrap, Backbone, Windows, Ubuntu & Red Hat Linux, OSX

Have Experience With

languages PHP, Java, Objective C, Fortran, Perl, Scheme, OCaml, ML, Lisp, Prolog, VHDL, IDL

technologies Apache, Nginx, DB2, Joomla CMS, Dragonfly CMS, Emacs, Flash, Photoshop, Seashore, HAML, SQL Server, ENVI, Visual Studio, Eclipse, .NET

Education

1998–2002 **BS, Mathematics**, *Augustana College*, Rock Island, IL.

1998–2002 **BS, Physics**, *Augustana College*, Rock Island, IL.

Actuarial Exams