## THOMAS A. PLICK

## Work Experience

• Self-employed—Contract work

May 2019 – Present

- Performed PostgreSQL, JavaScript, and C++ programming for customization of ERP software
- Performed Python and JavaScript programming for a Slack application
- Used the following technologies: Python, PostgreSQL, JavaScript, C++, git, Docker, Heroku
- Checkmate Champ (https://www.checkmatechamp.net)—Creator and Sole Developer August 2018 – April 2019
  - Checkmate Champ is a website that presents chess tactics puzzles and allows the user to solve them interactively.
  - Used the following technologies:

*Back-end:* Python, CherryPy, PostgreSQL *Front-end:* JavaScript, OCaml (with js\_of\_ocaml) *Tools:* git, pytest deployed on Google Cloud Platform

- Bakround—Senior Developer October 2016 – July 2018
  - Implemented continuous integration for company codebase using Jenkins
  - Supervised deployment of data science team's Python code in production
  - Started port of existing Java codebase to Python
  - Used the following technologies:

Back-end: Python, Java, Django, Flask, MySQL, PostgreSQL, RabbitMQ, Redis, Elasticsearch, SendGrid, nginx

*Front-end:* HTML, JavaScript, jQuery, CSS

Tools: git, pytest

Deployment: Amazon AWS (EC2, RDS, Elastic Beanstalk, ElastiCache), Docker, Docker Compose, Jenkins

## • Yorn, LLC—Software Engineer

October 2012 – October 2015

- Led company's move of hosting from Heroku to Amazon Web Services
- Constructed graphical tools to enable user-friendly manipulation of database
- Wrote system to generate LATEX-formatted report from user comments
- Implemented shim to connect newly developed user interface to legacy database
- Designed and implemented API to allow automated creation of new client records
- Used the following technologies:
  - *Back-end*: Python, Django, PostgreSQL, JSON, IronMQ, memcached, Mailgun, Twilio *Front-end*: HTML, JavaScript, jQuery, LATEX, CSS
  - Tools: git, VirtualBox (for testing front-end in IE)
  - Deployment: Heroku, Fabric, Amazon AWS (EC2, S3, RDS)
- Attended AWS training event ("AWSome Day") at Pennsylvania Convention Center (Philadelphia, PA) on April 7, 2015

## Education

- **Drexel University**—Philadelphia, Pennsylvania, U.S.A. *Ph.D. in Computer Science, September 2012* 
  - Defended thesis in June 2012, titled
    "Problems in Extremal and Combinatorial Geometry," advised by Ali Shokoufandeh
  - Final GPA: 3.99
  - Research assistant, September 2008 March 2012
  - Teaching assistant, September 2007 March 2012
- La Salle University—Philadelphia, Pennsylvania, U.S.A. Bachelor of Science in Mathematics and Computer Science, 2006
  - Final GPA: 3.99 overall, 4.00 in both majors
  - General University Honors