Tom Ebergen

tom@ebergen.com
San Francisco

EDUCATION

UNIVERSITY OF WATERLOO
Bachelors of Computer Science
Combinatorics and
Optimization Minor
Average: 80%
Finished April 2017

LINKS

Github:// tmonster
LinkedIn:// tomebergen
Website:// https://Tmonster.github.io

SKILLS

PROGRAMMING
Python (& Django)• Java • Shell •
JavaScript • C • C++ • CSS • PHP •
HTML • Git
Familiar:
Android • SQL • MySQL • Postgres •
AWS systems •

COURSEWORK

UNDERGRADUATE
Advanced Algorithms
Artificial Intelligence
Applied Cryptography
Networking (TCP & IP) Graph Theory
Computer Security and Privacy
Functional Programming
Formal Languages and Parsing
Databases
Graph Theory
Optimization Theory

EXPERIENCE

ASYNCHRONOUS RESEARCH CENTER | Research Assistant
Sept - Dec 2016 | Portland State University, Oregon
- Supervisor: Ivan Sutherland.
- Discovered anomalous coupling between circuit parts on experimental chip
- Developed, programmed, and analyzed tests on VLSI chip developed by the research group
- Presented discoveries in a clear and informative way to senior researchers
- Designed and tested asynchronous control of various chip modules

INDOCHINO | Software Engineer
Jan 2016 – April 2016 | Vancouver, Canada
- Assisted with developing product features and relevant front-end functionality
- Developed sleek native mobile views for new features on the website
- Implemented database tables and associated models for the MVC architecture
- Re-designed e-commerce web pages and removed unnecessary page reloads

VISION CRITICAL | Junior Software Engineer
Jan 2015 – Sept 2015 | Vancouver, Canada
- Improved product's UI to service Microsoft's Edge Browser users
- Created test suite for API functions
- Developed features to log details of calls to back-end functionality

PROJECTS

FACEBOOK TO-DO LIST CHAT BOT
- Written in python.
- View completed or uncompleted tasks with specific commands
- To-do list is specific to each person
- Uses Postgres SQL

DONALD TRUMP TWITTER BOT
- Written in python
- Uses an open-source recurrent neural network which trains on Donald Trump Tweets.
- Tweets are pulled using a tweet-scraper that strips the tweets of all URLs and non unicode characters.

INTRUSION DETECTION SYSTEM (IDS)
- Written in C.
- IDS Monitors a network for malicious activity. By inspecting packets the IDS can perform the following task:
  - detect Spoofed packets,
  - Reject Access to unauthorized servers,
  - perform Sinkhole lookups, and
  - detect ARP spoofing.