Newman Perry Cate

☐ (803) 509 - 1073 • ☑ NPCate01@gmail.com • ☐ PerryCate

Academics

Princeton University

BSE Computer Science (GPA 3.3, Departmental 3.8), Certificate in Entrepreneurship

September 2015 - June 2019

- Course Assistant: Operating Systems (Fall 2017, 2018), Networks (Spring 2017)
- **Select CS Courses**: Algorithms and Data Structures, Operating Systems, Computer Networks, Functional Programming, Information Security, Computer Graphics, Distributed Systems, Computing and Optimization
- Entrepreneurship Courses: Leadership Development for Business, Creativity Innovation and Design, Entrepreneurial Leadership
- Extracurriculars: Princeton ACM, Princeton Autonomous Vehicle Engineering, Lobster Club Improv Comedy, Acapellago a capella

Beijing Normal University

Princeton In Beijing Chinese Language Program

June 2016 - August 2016

Employment

1010data

Software Developer Intern - Data Orchestration

June 2018 - August 2018

- Created plugins and new DAG Workflows for Apache Airflow using Flask
- Worked with project shareholders to determine project scope and acquire iterative feedback
- Built comprehensive early-warning system for missing records in data pipeline with Python 3 and Redis, reducing error turnaround by up to 23 hours.

Facebook

Production Engineer Intern - Traffic Infrastructure

June 2017 - September 2017

- Designed and implemented a full rewrite of Traffic Infrastructure health checking service in Python 3
- Emphasized extensible, maintainable architecture and robust testing framework
- Skills required included concurrent programming and reading/understanding legacy code

GraySail LLC

Software Developer (Full-time during summers, part-time during school year)

June 2014 – August 2015

- Developed Custom Lab Inspection / Radiation Tracking software
- Used frontend angular.js with asynchronous calls to custom ORM backend written in PHP.
- Started as Summer internship, was hired afterwards. Worked 15 months until starting college

Projects and Leadership

Uniform-Chat-API

Spring Independent Work

February 2018 – Present

Developed a Python 3 web server that exposes a single, uniform, RESTful interface to interact with multiple chat services at once. Relied on the Falcon microservices framework.

${\bf Group Me-Utils}$

Personal Project

June 2016 - October 2017

GroupMe API wrapper written in Java. Includes multiple utilities for saving chat data and performing statistical analysis. Replaces several older projects previously written in Python 3.

Princeton ACM (Programming Club)

President

March 2017 - March 2018

Led programming club in organizing biweekly talks and events, weekly newsletters, and programming competitions. Regular attendance more than doubled, with maximum turnout increasing from 35 to 80+.

Skills and Awards

- o Programming Languages: Python 3, Java, OCaml, Go, C, Bash, PHP, JavaScript, HTML+CSS, SQL, K, Rust
- o Tools: Linux, Redis, Airflow, Git, Docker, Pip/Virtualenv, Mercurial, Maven, PostgreSQL, MySQL, React, Angular.js
- 1st Place: Google Games NYC Spring 2018, 2016, Jane Street "eth1" Fall 2015
- o 2nd Place: BDPA 2014 National High School Programming Competition
- o Eagle Scout: Led troop in refurbishing collected computers, donated them to Habitat for Humanity