

Peter Jin

4815 Snapjack Circle
Naperville, IL 60564-5398

peter@peterjin.org
+1 630-358-9184
<https://www.peterjin.org>
AS398565 / 23.161.208.0/24
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Objective

Summer 2021 Internship Position in Computer Science and Engineering

Education

University of Illinois at Urbana-Champaign

Aug 2018 – present

Computer Engineering | Dean's List 2019 | GPA 3.6 / 4.0

Selected Courses:

- Math 213 (Discrete Mathematics)
- Math 286 (Differential Equations)
- ECE 391 (Operating Systems)
- ECE 385 (FPGA Programming)
- CS 225 (Data Structures)
- ECE 210 (Analog Signal Processing)
- CS 438 (Communication Networks)
- CS 374 (Algorithms)

Projects and Experience

Champaign-Urbana MTD Bus Routes web app (<https://busroutes.peterjin.org>)

- Open source JavaScript web app for viewing GTFS feeds
- Currently only tailored to the Champaign-Urbana area, but many other transportation systems are possible

Linux Server Management

- Built my own desktop computer, now used as a production server
- Additionally a few virtual private servers scattered around the US
 - Currently running almost the entirety of <https://www.peterjin.org>
- Full IPv6 deployment, using a /44 directly from ARIN
- Technologies used: MySQL, Apache, nginx, command line, SSH, C/C++, SMTP, DNS, NTP, iptables, BGP, Raspberry Pi, Arduino, microcontrollers

AS398565 – <https://bgp.he.net/AS398565> – <https://www.peterjin.org/wiki/Network>

- Network development and operations role for my computer network
- Designed for full IPv6 deployment from the start, with IPv4 considered second class
- Multi-homed, as well as connections to an Internet Exchange
- Proposed business plan to offer IPv6 to anyone – <https://pjof.org>

inet-relay – <https://www.peterjin.org/wiki/Inet-relay>

- Used in the development of AS398565 and for general IPv6 deployment
- Runtime model allows for very flexible setups, especially with containers

Google Cloud Platform / Amazon Web Services

- Language Detector – <https://webapps1.peterjin.org/misc/LanguageDetector.html>