

Peter Jin

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<https://website.peterjin.org>

Objective

Full-time Job Opportunity in Software Engineering or System and Network Administration

Education

University of Illinois at Urbana-Champaign (GPA: 3.71 / 4)
B.S. Computer Engineering

Aug 2018 – present

Skills and Talents

Programming: C, C++, Java, JavaScript, Node.js, CSS, HTML, Python, Bash/Shell Scripts, x86 and ARM assembly, Golang

System Administration: Linux Command Line, Web Servers (Apache, Nginx), Databases (MySQL), TCP/IP, IPv4 and IPv6 routing (I know all the tricks!), BGP (I have my own independent IPv4 and IPv6 addresses); Docker / Linux Containers; SMTP, DNS, and NTP Servers; Firewall, Network, and Application Security

Miscellaneous: Cloud (AWS, Google, Azure), Electronics (PCB and circuit design)

Experiences

Internet of Things Research Intern (Infrastructure Technician)

June 2021 – present

- Professor Matthew Caesar's IoT research group
- Worked on the infrastructure and helped troubleshoot problems as they arise
- Quick response times to miscellaneous technical issues

Open Source Projects

Ctrtool

Dec 2020 – present

- Linux container runtime, like Docker; written in C
- Used knowledge of Linux internals to create secure Linux container runtime; designed from the ground up for security and versatility
- Software tested to work in ctrtool: Web Servers (Apache, NGINX), SMTP Servers (Postfix), PHP, Python, ISC BIND, Node.js, Docker (i.e. nested containers)
- <https://website.peterjin.org/wiki/Ctrtool>

IPv6 Things

Oct 2020 – present

- Node.js web server with virtualized networking stack that helps promote IPv6 deployment
- Knowledge of network security, TCP/IP, and OSI models required for development and deployment
- https://website.peterjin.org/wiki/IPv6_Things

Champaign-Urbana MTD Bus Routes

Oct 2018 – present

- JavaScript web app to view bus routes in the Champaign-Urbana area for University of Illinois students
- Static HTML/JS frontend with optional Node.js backend
- <https://webapps.pjin.org/busroutes/>