

# David Z. Chen

---

Naperville, IL · (630) 386-5091 · [davidzc2@illinois.edu](mailto:davidzc2@illinois.edu) · [linkedin.com/in/davch](https://www.linkedin.com/in/davch) · [davidchen.ml](http://davidchen.ml)

## EDUCATION

### **University of Illinois at Urbana-Champaign | Grainger College of Engineering**

*August 2018 – May 2022*

- Bachelor of Science in Systems Engineering and Design *GPA: 3.61/4.00*
  - Minor in Electrical and Computer Engineering with a concentration in Telecommunications
- *Awards and honors:* Illinois State Scholar, Dean's List
- *Relevant coursework:* Computer Systems & Programming, Analog and Digital Signal Processing, Control Systems, Data Structures, Deterministic Models in Optimization, Operations Research, Business Side of Engineering, Fields & Waves

## SKILLS

- Adept with Python, C, HTML, CSS, JavaScript (TypeScript), Angular, RxJS, NxJS, Power BI, MATLAB, LabVIEW, Simulink, Microsoft SQL, MySQL, Postman, and NGINX utilizing Jira, Confluence, Visual Studio Code, Docker, GitHub, GitLab, ServiceNow, and VMware vSphere ESXi with extensive experience in Windows, Mac OS X, and Linux environments.
- Amateur Radio (Extra Class), moderate Spanish and spoken Chinese proficiency, photography, computer repair, networking, and virtualization, full-stack web development, MS Office, CAD (Fusion 360), 3D printing, and robotics.

## EXPERIENCE

### **TechX Intern, Software Engineering | T-Mobile US, Inc. | Bellevue, WA**

*October 2021 – Present*

- Current product owner and primary developer for “Road to Success” – a full-stack application to facilitate employee requests for specialized trainings with a two-level approval/denial system based on a catalog of user-provided entries. Technologies utilized include Angular (TypeScript) with Material design for the frontend, Flask-RestX (Python) RESTful API with Swagger UI and MySQL database (SQLAlchemy) for the backend, as well as NxJS, RxJS, NGINX reverse proxy, and Azure SSO (MSAL) for user authentication. Future plans include comprehensive CI/CD pipelines between staging and production environments which will encompass linting, unit testing, static code analysis, and security audits.
- Developed relevant Objectives and Key Results (OKRs) aligned to the organization utilizing WorkBoard with the team, contributing to over \$800,000 in savings and risk reduction through process improvements and budget stewardship.

### **UofMagenta Intern, Systems Design Engineering | T-Mobile US, Inc. | Bellevue, WA**

*May 2021 – October 2021*

- Developed a Jira dashboard in Confluence as a final project, providing a unified area for issue navigation with updated at-a-glance metrics to both individual contributors and directors with drill-down capability detailing all team activity. Also presented to an audience of 46 people comprised of senior leadership, mentors, recruiters, and fellow interns.
- Transitioned entire team to Jira's Agile project management workflow, consolidating all 1000+ issues into three main categories, enabling rapid escalation of critical issues and comprehensive bug tracking. Eliminated manual tracking of all issues in cumbersome shared Excel workbooks, reducing the average backlog time to hours instead of days.
- Wrote awk command to interpret text files into YAML for use in Ansible and modernized team SharePoint site.

### **System Administrator Intern | Zhuhai Trinomab Biotechnology Co., Ltd. | Zhuhai, China**

*June 2019 – August 2019*

- Rectified internal network security, enhanced employee workstation performance, streamlined daily computing operations, and integrated company email services. Also imaged and deployed 20 new laptops for employees.
- Devised an extensive plan with a coworker for the incumbent IT department outlining procedures for updating critical infrastructure, training employees on fundamental cybersecurity practices, and implementing daily backups.

### **System Administrator Intern | EpimAb Biotherapeutics, Inc. | Shanghai, China**

*June 2018 – August 2018*

- Restructured intranet while collaborating in a team of 3, slashing network latency in half. Also audited 45 pieces of critical lab equipment, utilizing the existing inventory labeling standard to centralize location data for easy access.
- Gave a final presentation to executives and employees to raise awareness of ransomware and cybersecurity procedures to mitigate it which resulted in an 85% reduction in successful external phishing and scam attempts.

**Computer Service Specialist | Chicago Computers, Inc. | Naperville, IL**

*August 2017 – March 2018*

- Diagnosed and repaired computers and other electronics, working directly with over 100 unique companies and customers through consultation, house calls, and remote assistance, resulting in a 95% client retention rate. Also ensured proper recycling of used electronics while recovering working components, reducing e-waste by 350 lb overall.
- Configured and deployed an office-wide VoIP phone system using FreePBX which doubled ticket turnover rate.

**Network Engineer | Five Star Tennis Center | Plainfield, IL**

*October 2017*

- Overhauled core network which boosted throughput by 15%, reduced downtime to 1% per year, and eliminated security vulnerabilities. Also expanded wireless network coverage, allowing for seamless roaming in the entire building.

**System Administrator | Tech Auto Service, Inc. | Downers Grove, IL**

*May 2011 – Present*

- Designed and built all computer systems, video surveillance equipment, and crucial network infrastructure, configuring internal software when necessary. Currently providing on-call remote support and technical advice.

**ACTIVITIES**

**Eagle Scout | Boy Scouts of America - Troop 222 of Naperville, IL**

*May 2011 – Present*

- Coordinated the troop and its scouts, earned merit badges, developed crucial life skills, and organized an Eagle Project to give local homeless shelter residents vital access to computing resources. Held positions of Patrol Leader, Assistant Senior Patrol Leader, Historian, Scribe, Troop Guide, and Leave No Trace Coordinator.

**Webmaster | Institute of Electrical and Electronics Engineers (IEEE) UIUC**

*September 2018 – Present*

- Revamped the IEEE UIUC chapter website ([iee.illinois.edu](http://iee.illinois.edu)) and created a weekly newsletter for members.

**Student Representative | Naperville City Council Riverwalk Commission**

*September 2017 – August 2018*

- Partook in monthly meetings with a team of 11 other representatives from all levels of the city government to help recommend and implement plans for the development and use of public resources along the DuPage River.
- Assisted in submitting a proposal to city leadership to conduct a structural assessment on Moser Tower with additional testing and evaluation in order to determine the root cause of the carillon's deterioration.