# Carey Li

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## EXPERIENCE

### Jane Street
Hong Kong

*Production Engineer*
*Jan 2020 - Present*

· Proposed and lead a project to overhaul sheet downloading infrastructure, improving observability and reliability of these processes whilst speeding up download times significantly *(e.g. mirrors that used to take more than 2 hours now complete in 15 minutes)*.

· Implemented a SFTPv3 client with support for parallelized mirroring, directory traversals with regex pre-matching and file prioritization. All together, these features allow for remote sites to be mirrored efficiently, cutting down the average mirror time by a factor of 4 or more.

· Reworked the alerting and support story around mirroring processes, addressing blind spots and removing the need for expert knowledge to diagnose issues *(e.g. common errors now come with a detailed list of possible faults and remediation steps)*.

· Designed and implemented a sheet health web interface allowing operations to quickly check the status of sheets required for back-office processes in a timely and self-service manner. The interface is now used daily in every office, saving 6+ hours a week spent on inter-team asks on sheet statuses.

· Extended the sheet web interface with support for editing sheet details, allowing users to update sheets without requiring knowledge of OCaml nor assistance from production engineers, saving 3+ hours a week.

### Optiver Asia Pacific
Sydney, Australia

*Software Developer Intern*
*Feb 2019 – Jun 2019*

· Developed tooling to enable fleet-wide continuous deployment, with 90% of applications continuously deployed.

· Created web dashboards to surface statistics on package deployments and state.

· Managed rollouts of continuous deployment tooling through Ansible.

*Application Engineer Intern*
*Nov 2018 – Feb 2019*

· Implemented a process status reporting framework, surfacing metrics on over 3000 applications.

· Modernised legacy components of process control tooling, improving service reliability and quality.

### Nasdaq (SMARTS Trade Surveillance)
Sydney, Australia

*DevOps Engineer (Contract)*
*Mar 2018 – Nov 2018*

· Containerised existing CI pipelines, reducing test times from 30 minutes to 3.

· Created and maintained Puppet modules to effectively manage infrastructure.

· Packaged modern software tools to supersede versions available on CentOS 6.

*DevOps Intern*
*Nov 2017 – Mar 2018*

· Implemented an automated regression testing framework, improving test coverage.

· Developed proof of concepts for new internal tools, enabling clients to self-validate data, and reducing turnaround times from weeks to hours.

## EDUCATION

### University of New South Wales
Sydney, Australia

*B.Sc. (Computer Science, majoring in Security Engineering); WAM 81.42*
*2017 – 2019*

## DISTINCTIONS

### PyCon 2019
*Speaker (Using Python, Flask and Docker to teach Web Pentesting)*
*2019*

### Cyber Challenge Australia (CySCA)
*Overall Second Place*
*2018*

### Facebook Bug Bounty Program
*Denial of Service Vulnerability in Facebook Messenger*
*2016*