

Sijia (CJ) Chen

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ABOUT ME

University of Waterloo educated Platform Engineer with 8 years of professional experience who is passionate about building robust and scalable tooling and backend platforms.

SKILLS

Python, C#, Serverless, CI/CD, ECS, Javascript, Typescript, Postgres, RDS, Spinnaker, Jenkins/Groovy, Bash, Cypress, React, Kotlin, Kubernetes, AWS Lambda

EXPERIENCE

Autodesk Inc (Previously PlanGrid)

Sept 2018 – Apr 2019, Aug 2019 – Present

Senior Platform Engineer

San Francisco, CA

- Led and onboarded new team focused on platformizing quality tooling and test-data generation
- Designed, developed, and maintained a serverless lambda service using C# and Python, supporting regionalization validation and load testing across distributed systems.
- Collaborated with multiple engineering teams across Autodesk to promote inner sourcing, enabling cross-team adoption and shared ownership.

Senior DevOps Engineer

San Francisco, CA

- Contributed to observability, CI/CD pipeline development, and security vulnerability management for Autodesk Forma, supporting a high-traffic, high-availability cloud service operating under FedRAMP and SOC2 compliance requirements.
- Executed large-scale data migration for a 24x large Amazon RDS instance with 8k QPS between AWS accounts to enable read replicas, failovers and improve performance.
- Led regional deployment of Autodesk Construction Cloud components into new Australian Datacenter to facilitate performance improvements and data sovereignty requirements for customers.
- Led Construction Backend Engineering Town Hall, facilitating cross-team collaboration on shared backend architecture and platform challenges.

Automation Platform Engineer

San Francisco, CA

- Developed and maintained CI/CD pipelines and reusable test packages to enable feature teams to build robust automated testing frameworks and improve test quality and coverage.
- Maintained and scaled an internal service responsible for generating, persisting, and dynamically assigning complex project data to users on demand for validation workflows.
- Led monthly meetings and events for Female and Non-Binary R&D members within Autodesk Construction Solutions, fostering inclusion, mentorship, and cross-team collaboration.

EDUCATION

University of Waterloo

Bachelor Degree in Honours Computer Science

Sep 2014 – Jun 2019

Ontario, Canada

INTERSHIPS

Quality Automation Intern

Jan 2018 – Apr 2018

FutureAdvisor (acq. BlackRock)

San Francisco, CA

- Selenium, Java
- Reduced test run time from 3 hours to 30 min using Selenium Element Caching

Co-op Student

May 2017 – Aug 2017

Toronto Transit Commission

Toronto, Canada

Security Data Analyst

Sept 2016 – Dec 2016

Royal Bank of Canada

Toronto, Canada

Mobile Developer

Jan 2016 – Apr 2016

New Signature

Toronto, Canada

Developer

May 2015 – Aug 2015

Evermight

Toronto, Canada

PROJECTS

Household Reporter | Python, Google Cloud API

- Fetches transaction reports from Gmail, processes, categorizes and pushes it into Google Sheets

Personal Website | React, Javascript, Github Actions

- Portfolio Website originally deployed on Heroku, then Github Pages. Deployed using Github Actions

AO3 Trends — BeautifulSoup, SQLite, Matplotlib

- Web Scrapes archiveofourown.org in accordance with the robot.txt file requested rate limit
- Processes tags associated with fan works using NumPy and displays trends in fandoms across time
- Data Storage with SQLite DB and SQLAlchemy