

Alison Chan

Detroit MI

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Generalist software engineer with a track record of producing clean code, eliminating technical debt, and digging into complicated problems spanning multiple systems. Seeking a challenging software engineer position with opportunities to learn new technologies and advance to senior technical roles.

Professional Experience

Fund for Equal Justice

Assistant

Detroit MI

January 2018 – present

- Implemented a mail merge document to produce donation acknowledgement letters.
- Entered historical donation records from copies of cancelled checks into a spreadsheet.

GrubHub

Driver Partner (independent contractor)

Oakland County MI

November 2017 – present

- Retrieved food orders from restaurants and delivered them to customers in a timely and efficient manner.
- Communicated with customers and restaurants to assess pickup and delivery needs and provide information of order status.
- Maintained accurate records of mileage driven in each shift.

X by 2

Software Engineering Consultant

Farmington Hills MI

October 2015 – August 2017

- **Client project: Claims System for Auto-Owners Insurance**
- Reengineered document management integration middleware based on Java EE/Apache Camel/Spring, focusing on cleaner data model, cleaner APIs, and better fault tolerance. This led to fewer system errors, improved performance, and easier troubleshooting.
- Customised COTS application front end with vanilla JavaScript and Gosu code, resulting in improved workflow for end users as well as better performance.
- Led design review, code review, and data model discussions.
- Troubleshooted integration errors, working closely with external vendors and other departments in the client organisation. Performed data fixes and code hotfixes in the production environment.
- **Internal consulting project: Applicant Tracking / HR System**
- Collaborated with X by 2 principals to gather requirements for a cloud based applicant tracking and HR administration system to replace various home-grown applications.
- Researched and contacted potential vendors for requirements analysis and demos with stakeholders.

Kettering University

Department of Computer Science : Research Assistant

Flint MI

April 2013 – June 2015

- Configured OpenFlow software defined networking switches for Kettering's Laboratory for Advanced Network Applications and developed and tested OpenFlow controller applications.

Kettering University

Department of Customer Service & Programs : Student Caller

Flint MI

July 2012 – September 2015

- Invited prospective students to Kettering open house events and followed up with postcards and phone calls after those events.

Livio

Software Engineering Co-op

Ferndale MI

September 2012 – December 2012

- Developed iOS apps and backend network code for sales demonstrations.

New Eagle

Software Engineering Co-op

Ann Arbor MI

October 2010 – June 2012

- Created HMI applications for embedded display hardware and PC applications to calibrate electronic control modules.
- Worked with product managers to evaluate products being considered for distribution.

Volunteer Experience

Kibbutz Detropia

Tech Maven

Detroit MI

September 2017 – present

- Overhauled Kibbutz Detropia's online presence, including revamping the website (<http://kibbutzdetropia.org>), administering a Google Apps for Nonprofits instance, and updating social media profiles.
- Tended vegetable gardens and cleaned up litter and illegal dump sites in the neighborhood.
- Cooked for weekly vegan/vegetarian public Shabbat dinners.

Penguicon

Assistant Head of Logistics → Head of Logistics

Southfield MI

December 2015 – present

- Oversaw the annual process of inventorying the property of a 1600-attendee open source/science fiction/DIY convention.
- Coordinated the transportation of convention property between the storage location and the convention venue, including scheduling load-in and load-out times, determining volunteer staff needs, and directing volunteers during load-in and load-out.

Projects

- **Bendyboi Tracker** (<https://github.com/alis0nc/bendyboi-tracker>): A Discord bot that serves as a front end to the bus tracker API of a local public transit system. It provides a query interface to the bus tracker through Discord messages, and sends alerts when certain buses begin or end their runs.
- **DDOT Bus Mapping** (in progress): Surveying Detroit Department of Transportation bus routes and entering stop locations in OpenStreetMap.
- **psoaas** (<https://github.com/alis0nc/psoaas>): A web service wrapper for the PDF file size optimiser pdfsizeopt, built with Node.js and Express.

Skills

- **Programming languages:** Python; Java; Gosu; JavaScript; shell script; C#
- **Frameworks:** Apache Camel; Spring Web Services; Spring Boot; Express
- **Databases:** MS SQL Server
- **Operating systems:** Linux (desktop & embedded); Windows
- **Networking:** Ubiquiti EdgeOS and UniFi platform; TCP/IP; IPv6 dual-stack environments
- **Workflow:** git; GitHub; JIRA; Travis-CI; Jenkins; bash script

Education

Kettering University

Coursework completed for dual degree BS Computer Science / BS Computer Engineering

Flint MI

2010 – 2015

- Systems and Data Security concentration
- International Studies minor