Elena Zhan

elenzhandeva.github.io
elenzhandeva@gmail.com
ca.linkedin.com/in/elenazhan
github.com/elenzhandeva

EDUCATION

UNIVERSITY OF WATERLOO
Honours Computer Science
Coop 3B
Sept. 2015 - May 2020
GPA: 3.7 | Cumulative Avg: 84.4
Dean's Honour List (May 2017)

SKILLS

Python • C / C++ / C# • Go
Java (Eclipse) • Racket (Scheme)
HTML • CSS (Sass & Less)
Javascript • AngularJS
PHP • MySQL • .NET
Ruby on Rails • Watir
Rspec • Factory Girl
Linux (Bash) • Git • AWS • Jira
Docker • Grunt/Gulp • Postman
Vagrant • ChefDK • K8s

EXTRACURRICULARS

UW Acro Yogis
2016-present | Base

WiCS
2015-present | Member

Science Olympiad
2014-2015 | Team Leader
- Planned weekly events for 100+ students to prepare teams for various science competitions
- Teams placed 1st at UWindsor Engineering Competition (city-wide) and McMaster Science Olympics (province-wide)

2013-2014 | Member
- Placed 2nd at McMaster Science Olympiad

Computer Science Club
2012-2014 | Member
- Developed problem solving skills and learned extra computer science concepts outside of the high school courses in weekly club meetings (**Python, Java**)

WORK EXPERIENCE

INFRASTRUCTURE ENGINEER INTERN | Yahoo!
Jan - Apr 2018 | Sunnyvale, CA
- Set up **CloudFormation** templates to spin up resources (ECR, EC2, ELB, Cloudwatch, etc.) to migrate **Docker** registry and auth services to **AWS** (>100TB of images)
- Added mutual TLS authentication between Docker registry authentication and identification services in **Go**
- Added feature to self-authorize user services for Docker registry authentication
- Provided user support (to all of Yahoo and AOL's developers) during migration of Docker registry from in-house data centers to AWS
- Worked on a nginx proxy using **Ruby**, **ChefDK**, **Vagrant**, and **Kubernetes**

JR SOFTWARE ENGINEER | Flipp
May - Aug 2017 | Toronto, ON
- Added over 40 new merchant website flyer scrapers, significantly improving unique user engagements in Canada and US (eg. increase by 104% in Utah)
- Fixed major scalability issue by regrouping flyer pages sent to a de-duping algorithm into smaller batches to avoid overloading it with one large job
- Improved Ops team efficiency by rebuilding an internal health check dashboard with **Rails** framework, using cached data from multiple tables periodically updated
- Implemented logging of jobs sent between backend microservices to **AWS** Cloudwatch, facilitating tracing and debugging throughout the system
- Wrote unit tests with 100% code coverage (**Rspec, Factory Girl**), completed code reviews (**Github**), deployed to production (**Jenkins**), and was in on-call rotations

WEB APP DEVELOPER | Nascent Digital
May - Aug 2016 | Toronto, ON
- Implemented design changes to improve UX and fixed existing bugs on Heart and Stroke Foundation's 'Risk Assessment' web app and '<30 Days' mobile app using Visual Studio **.NET (c#, cshtml, less), MS SQL Server**
- Fixed security issues, developed pages, and implemented a referral program for Public Mobile's website using **AngularJS, Sass, PHP, MySQL**. Used various SDKs (Facebook, Twitter, Instagram, G+) for social sharing
- Juggled multiple projects simultaneously, always completing work before/by deadlines despite last minute requirement changes
- Coordinated with the clients, designers, other devs, PMs, and the QA team on each of these projects

MATH TA | University of Waterloo
Sept - Dec 2016 | Waterloo, ON
- Marking assistant for first year calculus

PROJECTS

CHAMBER CRAWLER 3000 2016
- Built a text-based version of Rogue with two partners in **C++**
- Implemented spawning of characters and item functionality using object oriented design patterns and smart pointers for memory management

EAT SOCIAL 2016 | Hack the North
- Built a web app with two teammates that pairs users in proximity and recommends a restaurant at optimal distance from their locations
- Used **AngularJS, Firebase** and **Yelp API**

CASTLE WOLFENSTEIN C64 2015
- Built a modified version of the stealth game in **Java Swing** with an enemy AI (enemies chase player in their field of view)