MITCHELL RIVETT

SOFTWARE ENGINEER

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TECHNICAL SKILLS

PROGRAMMING
- Python
- Javascript
  - ReactJS
  - NodeJS
  - JQuery
  - Django
- C#
- Java
- C/C++
- Lua
- PHP
- SQL
- HTML/CSS
- ARM Assembly

DATABASES
- MySQL
- MongoDB
- Oracle
- PostgreSQL

OPERATING SYSTEMS
- Arch Linux
- Windows

TOOLS & PROTOCOLS
- Agile Scrum
- Blue Prism
- Git
- Office, G Suite
- Blender
- Vagrant
- UML

WORK EXPERIENCE

BUSINESS SYSTEMS ANALYST   JUN 2017 – PRESENT
Telus
- Leveraged DHTMLX UI and databinding with Oracle database to design, build, maintain 3 self-administering tools reducing TELUS resource and financial planning time and improving process managing consistency for all mid-market to large complex deals
- Assisted server owner administrating 50 VM machines for TELUS RPA bot hosting and development
- Currently building RPA team to run agile scrum meetings with partnered developers, as well as monitor and manage failures for mission critical bots

HGA DEVELOPER   Sep – Dec 2016
Western Digital Thailand
- Programmed multithreaded image processing algorithms to detect production defects
- Communicated clearly and concisely in formal presentations to management, coworkers, and over 100 students at my sponsoring Thai university

CO-OP INTERN   Sep 2015 – May 2016
Picture This Today
- Spearheaded the creation of PHP scripts to automate database updates from realtor.ca database using cron jobs
- Created responsive websites for 5 franchisees using HTML, CSS, JQuery, PHP and utilizing Google Maps API
- BCIC feature for co-op success story: https://bit.ly/2U8WSTm

EDUCATION

BACHELOR OF SOFTWARE ENGINEERING
University of Victoria   Sep 2012 – Sep 2017
- Collaborated with Vivitro Labs in a group of 5 to study requirements process for cardiovascular device testing machines and assisted their research in finding an appropriate signal type for a machine

OTHER PROJECTS

LAND SURVEYORS CHECKLIST SYSTEM

Web app allowing managers and surveyors to communicate work progress via checklists
Github:
https://github.com/moezubair/LSCS/wiki

- Designed and implemented 3-tier architecture using Django in a team of 4
- Formally documented, designed with UML

TEXT ADVENTURE FRAMEWORK

Simple framework made in Python to create text adventure games
Github:
https://github.com/mitchellri/Text-Adventure-Framework

CUSTOMER SERVICE

ENGLISH TEACHER
NATIVETALK

May – Aug 2017

Prepared structured lectures and taught 4 children successfully over the phone

- Taught grammar, common speaking subjects in highly interactive classes

INTERESTS

🐠 Aquatics

🍜 Foodie

⌨ Keyboard builder

🎨 Digital/Fine Art

PERSONAL PROJECTS

LITTLE FISHES

Arcade styled game where players grow and evolve competitively with the rest of the ecosystem
Sample: https://imgur.com/a/Wxz49aU

- Implemented behavioral design patterns (command, observer) and object recycling in Lua using Love2D

JOURNALPETS

Web app that rewards journal contributions with items to care and interact with a virtual pet (In development)

- Developed 3-tier architecture application using React/Redux and NodeJS server interacting with PostgreSQL database

DISCORD BOT

Tracks and graphs gaming data. Custom commands, interactions, storage. Currency system based on time played together.
Sample: https://imgur.com/a/qB9xelq

- Developed with DiscordPy and MatPlotLib, uses JSON to store data

HACKATHONS

BATTLESNAKE – 1ST PLACE

6 hours are given to program game AI for their competing snakes in the classic Snake game. Multiple snakes are placed into an arena to battle
News: http://martlet.ca/news/uvic-students-win-battlesnake-competition-against-local-tech-companies/
Github: https://github.com/mitchellri/snakes_on_a_plane

- Placed 1st in a team of 5 to program AI against 100 students/local tech companies using the A* pathfinding algorithm and c9.io to simplify collaboration
- Initiated and lead weekly preparation meetings

SUPER UVIC GAMEDEV PLATFORMER JAM

A platformer themed game jam with 10 hours to develop a game, followed by demos
Github: https://github.com/mitchellri/Super-UVic-GameDev-Platformer-Jam

- Developed Surfer Dude in Lua using Love2D and created the art using GraphicsGale

MICROSOFT CODING COMPETITION

Select a language to program 3 of 5 coding challenges as a group or individually where results are based off black box tests on submission

- Selected Python to individually to solve complex problems