Yu (Kevin) Fu

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EXPERIENCE

ESOLUTIONS GROUP | Software Developer
Sep 2016 – Dec 2016
- Reduced website setup time from one day to under 30 minutes by writing scripts to make REST API calls. **(PowerShell, SQL)**
- Developed and deployed 8 websites (out of 15 sites total from the team) for large cities and corporations using the company's internal content management system. **(.Net, SQL)**

KPMG | Sr. Software Developer
Jan 2016 – Apr 2016
- Built an application to improve the tax return preparation process, decreasing development time by 30% (3 to 5 days). **(VBA)**
- Generated tax returns for over 4,000 individuals.
- Prototyped UI for new international tax software. **(C#, .Net)**

TELUS HEALTH | Programmer Analyst
May 2015 – Aug 2015
- Directed migrations to continuous integration for three teams, involving introduction to Jenkins and Git.
- Refracted poorly maintained QA tool and redesigned UI to be more intuitive increasing producitivity by 10%. **(java)**

KPMG | Software Developer
Sep 2014 – Dec 2014
- Re-built platform to host complex questionnaire websites that filed tax returns for over 5,000 individuals. **(C#.Net)**
- Wrote tools and macros handling client data to saving 3-4 days of manual work. **(VBA, Excel)**

PERSONAL PROJECTS

FLOW SOLVING ALGORITHM | Python
May 2017 – Present
- Designed algorithm to solve a phone puzzle game named Flow.
- Reduced search space by contracting edges of the grid based on the clustered points.
- Determined unsolvable stages to reduce width of the search tree.

TETRIS | Python - Pygame
Aug 2017
- Implemented real time tetris game based on Tetris Battle GUI.
- Emphasized on smooth and intuitive game mechanics.

SKILLS

LANGUAGES:
Python • Java • C • C++
C# • PowerShell • JavaScript
SQL • Scheme

TOOLS:
Pygame • Numpy
Linux • Git • Vim

EDUCATION

UNIVERSITY OF WATERLOO
Fourth Year Computer Science
Music Minor
Expected Dec 2018

COURSEWORK

Algorithms
Operating Systems
User Interfaces
Numerical Computation
Artificial Intelligence
Concurrent & Parallel Programming

EXTRA CURRICULARS

MUSICAL DIRECTOR:
Conductor at St. Cecilia's Youth Orchestra
- Three Years of professional conducting experience.
- Built spreadsheets tools to organize and streamline executive tasks.

Musical Director at UWaterloo A Cappella Club
- Lead weekly beatboxing and music theory workshops.
- performed at numerous concerts with over 700 patrons.

HOBBIES:
Skiing • Badminton
Martial Arts • Music Production