Akram Jamil

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Education

BCFM   **University of Waterloo**, Computing & Financial Management   Sept 2024 – Apr 2029
- **Majors:** Computer Science, Accounting & Fincance
- GPA: 3.9/4.0
- **Coursework:** Computer Architecture, Comparison of Learning Algorithms, Computational Theory

Experience

Kumon Canada, Teaching Assistant   Brampton, ON
Sept 2020 – present
- Reduced time to render user buddy lists by 75% by implementing a prediction algorithm
- Integrated iChat with Spotlight Search by creating a tool to extract metadata from saved chat transcripts and provide metadata to a system-wide search database
- Redesigned chat file format and implemented backward compatibility for search

Microsoft, Software Engineer Intern   Redmond, WA
June 2003 – Aug 2003
- Designed a UI for the VS open file switcher (Ctrl-Tab) and extended it to tool windows
- Created a service to provide gradient across VS and VS add-ins, optimizing its performance via caching
- Built an app to compute the similarity of all methods in a codebase, reducing the time from $\mathcal{O}(n^2)$ to $\mathcal{O}(n \log n)$
- Created a test case generation tool that creates random XML docs from XML Schema
- Automated the extraction and processing of large datasets from legacy systems using SQL and Perl scripts

Projects

Multi-User Drawing Tool   github.com/name/repo ⬈
- Developed an electronic classroom where multiple users can simultaneously view and draw on a "chalkboard" with each person's edits synchronized
- Tools Used: C++, MFC

Synchronized Desktop Calendar   github.com/name/repo ⬈
- Developed a desktop calendar with globally shared and synchronized calendars, allowing users to schedule meetings with other users
- Tools Used: C#, .NET, SQL, XML

Custom Operating System   2002
- Built a UNIX-style OS with a scheduler, file system, text editor, and calculator
- Tools Used: C

Technologies

Languages: C, Python, Dart, Flutter, SQL, JavaScript, HTML, CSS, Flask, matplotlib, numpy

Technologies: Visual Studio Code, XCode, Android Studio, Blender