Amar Koonar

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Technical Skills

Languages: PowerShell, JavaScript, TypeScript, HTML/CSS, Java, Python, C, C++, SQL (PostgreSQL)
Frameworks: React.js, Next.js, Node.js, ExpressJs, Tailwind
Developer Tools: VS Code, Neovim, Docker, Git, GitHub, Slack
Transferable Skills: Problem-solving, teamwork, communication, time management, adaptability

Personal Projects

Posture Detection App | *Flask, MediaPipe, PyWebview, PyWebview, PyInstaller*

- Built a Python application using MediaPipe to detect and correct sitting posture in real-time using webcam input.
- Implemented coordinate tracking logic to highlight posture alignment and issue warnings for slouching.

GitGood | *Next.js, Tailwind, React, Vercel, Playwright, JavaScript*

- Developed a web app to help developers level up their GitHub presence with AI-powered tools, beginner-friendly issue discovery, and personalized growth insights.
- Implemented CI/CD pipeline on Vercel for rapid deployment and automated previews.
- Built and tested end-to-end functionality using Playwright to ensure reliability and intended behavior.

MapReduce Multi-threaded Framework | *C, POSIX threads*

- Implemented a simplified MapReduce Framework in C using POSIX threads to perform parallel data processing.
- Designed thread-safe data structures to coordinate map and reduce phases efficiently.
- Improved runtime performance on large text files by distributing tasks across multiple worker threads.

Experience

Calc Connect Peer Mentor Dec. 2024 – July 2025
Simon Fraser University *Burnaby, BC*

- Facilitated group-based learning sessions to support students in mastering core calculus concepts such as limits, derivatives, and integrals.
- Promoted collaborative problem-solving and mathematical reasoning by guiding students through example problems and peer discussions.

Computer Science Peer Tutor Dec. 2024 – July 2025
Simon Fraser University *Burnaby, BC*

- Supported students in understanding foundational computer science topics such as recursion, data structures, and algorithm design.
- Simplified complex programming concepts by breaking them down into approachable steps and providing real-world examples.

Relevant Coursework

CMPT 225 - Data Structures & Programming

- Implemented and analyzed linked lists, stacks, queues, trees, AVL trees, and hash maps.
- Practiced object-oriented design, memory management, and debugging in C++.

CMPT 201 - Systems Programming

- Explored process management, file systems, concurrency, and threading.
- Implemented network communication using TCP and UDP sockets in C, demonstrating proficiency in socket programming and client-server architecture.

Education

Bachelor of Science in Computer Science Sept. 2023 – Present
Simon Fraser University *Burnaby, BC*