Vishwajeet Nehra

604 442 8542 – vishwajeetnehra@alumni.ubc.ca

TECHNICAL SKILLS

- Programming Languages: Java, TypeScript/JavaScript, Python, C++, C

- Tools/Frameworks: REST, NodeJS, RStudio, Unix/Linux, Git, LaTex

- Testing: JUnit, Mocha/Chai, Karma, LLDB

TECHNICAL PROJECTS

insightUBC   Sep 2019 – Dec 2019

- Working on a full stack web development project that enables the querying of metadata involving courses, grade averages, room scheduling and timetable creation. Collaborating on the project with a partner
- Utilizing JSONs for metadata handling and parsing. Incorporating asynchronous libraries for data loading and processing. Used REST in the JavaScript handling of the frontend

Skills: Full Stack development, Asynchronous Programming, TypeScript, REST, NodeJS

Cigarette Smokers' Problem   Aug 2019

- Designed a solution with a partner to the cigarette smokers' problem (a concurrency problem based on resource usage) using multiple threads, mutexes and condition variables that would work on a multiprocessor system

Skills: Threads, Dynamic Memory Allocation, C, Working in a team

Arcade Snake Game   Jun 2019

- Utilized Java UI libraries to make a user-controlled snake game, in which the snake eats apples to grow. Implemented the Observer pattern for all UI interactions

Skills: UI Design, JFrame, JPanel, Java, Design Patterns

Calendar Application with Planner   Jan 2019 – Apr 2019

- Designed a calendar Application in Java, added functionality such as tasks and tags to enable the calendar to be used as a planner. Used Design Patterns to minimize coupling and designed cohesive classes
- Implemented JSON parsing to parse user given strings into a calendar event and its respective attributes
- Organized project work such that rapid deadlines were met, achieving a score of 100%

Skills: Object Oriented Programming, Java, JSON, Test Driven Development, Exception handling

EXPERIENCE

Taught underprivileged children Mathematics, English and Computer Skills   Aug 2015 – Jan 2017

- Collaborated with a partner on planning, teaching and assessing a small group of underprivileged middle school children
- Learned communicative and leadership skills in the process, got all of the students to pass their respective classes

Worked as a Leader in an Organizational Capacity in a School Wide Event   Oct 2015, Nov 2016

- Managed a group of 30+ volunteers, delegating tasks such as prop arrangement and other logistical work

Lead part of a Student Conference consisting of 100+ participants (Round Square)   Jul 2016

- Lead my subgroup through community service activities, social change discussions, sports activities and an on-stage performance

EDUCATION

University of British Columbia, Vancouver   Sep 2017 – Apr 2022

Bachelor of Science, Combined Major in Computer Science and Statistics (Year 3)

- Awarded the Outstanding International Student Award
- On the Dean's Honour List in Year 2

Genesis Global School, India   Apr 2015 – May 2017

International Baccalaureate Diploma

- Awarded Highest Scorer in 3 subjects

COURSEWORK

- Software Engineering, Programming
- Algorithms and Data Structures
- Statistics for Applications, Statistical Inference
- Models of Computation, Computer Systems
- Multivariable Calculus, Linear Algebra

EXTRACURRICULAR ACTIVITIES/INTERESTS

- Won first place at a Provincial level and participated in National level Fencing Championships
- Represented High School in Debates, Knowledge Quizzes
- Won awards in Athletics, Cricket, and Football at a high school level
- Interests: Philosophy, Guitar, Metal, Automobiles, Racing, Gaming, Weight Lifting, Speedcubing