

Kindeep Singh Kargil

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Education

Brock University

HONOURS, BACHELOR OF SCIENCE, COMPUTER SCIENCE (CO-OP)

St. Catharines, ON

September 2017 - present

- Academic average: 90%
- Dean's honour list (2018)
- Brock entrance scholarship 2017, \$10,000
- Relevant Courses:
 - COSC 2P03: Advanced Data Structures - 100%
 - COSC 2P95: Programming in C++ with Applications - 93%
 - COSC 3P91: Advanced Object Oriented Programming - 89%

Skills

- Languages: Java JavaScript Python C++ SQL (PostgreSQL) Kotlin HTML CSS LaTeX
- Tools: Android Development Node.js git Angular Gradle
- Ability to learn and adapt quickly: Programming Languages, Concepts, Environments
- Strong mathematics background: Cryptography, linear algebra, problem solving.
- English, Hindi and Punjabi - Strong interpersonal communication, spoken, written and comprehension skills.
- Leadership and public speaking skills.

Career Related Experience

Caribou Contests

St. Catharines, ON

WEB DEVELOPER

Jan. 2019 - Apr. 2019

- JavaScript node.js Pascal PHP MySQL
- Developed a game to untie knots as well as features to edit knots and determine their properties like unknotting number using JavaScript.
- Worked on various other website features, such as a page to send HTML formatted emails, a program to generate latex posters along with miscellaneous bug fixes.
- Worked closely with my supervisor to assist with research on mathematical knots (a subset of Topology), presented research results at Brock University, University at Buffalo, University of Waterloo.

Projects

Game Database

Brock University

ACEDAMIC PROJECT (TEAM): DATABASE SYSTEMS

July 2019

- SQL PLpgSQL Java Swing Hibernate
- Planned and implemented database following the database design process.
- Implemented the schema in postgresSQL, triggers using plpgsql.
- Developed a database management application using Java, Swing and Hibernate ORM.

Reddit Video Generator

PERSONAL PROJECT

June 2019

- Python github.com/kargq/redditVideoGenerator
- Effectively an automated youtube channel which generates videos from hot posts on subreddits.
- My first python project, helped me get used to python syntax and environments.

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Robo Race

Brock University

ACADEMIC PROJECT (INDIVIDUAL): ADVANCED OBJECT ORIENTED PROGRAMMING

August 2018

- `Java` `Swing`
- Developed server and client programs for a multiplayer board game in Java.
- Implemented sockets, multithreading and object oriented design patterns like Factory, Decorator, Composite

Inverse of Matrices

PERSONAL PROJECT: ANDROID APP

June 2018

- `Android` `Java` play.google.com/store/apps/details?id=a.kindeep.matrixsolver
- Developed an Android app to calculate inverse of matrices as my first android project.
- Implemented a matrix library in Java with multiplication, addition and inverse support. Implemented adjoint method as well as gaussian elimination for inverse.
- The app is currently among the top 2 search results for 'Matrix Inverse' apps on Play Store and has 500+ Installs.

Competitions

HackThe6ix 2019

University of Toronto

ANNUAL HACKATHON

August 2019

- **Top 10** `Python` `Express` `React` `Node.js` devpost.com/software/tbd-07mrsn
- Our team built a web app which uses satellite images after a natural disaster to detect damaged houses and estimate monetary damage.
- Wrapped the machine learning model to detect damaged houses built in Python in a Express and Node.js back end.
- Implemented the front end with React, used property valuation data from Zillow API and address resolution with google maps API.

CSGames 2019

Polytechnique Montréal

ANNUAL COMPUTER SCIENCE COMPETITION

March 2019

- **9th place:** Mobile Development `Kotlin` `Android Studio`
 - Implemented the UI and API calls in Android to fetch ingredients, ratings etc. for a Juice Mixing app.
- **7th place:** Compiler `C#` `Roslyn` `NET Core`
 - Developed linter features like checks for redundant variables, functions that are too long, etc. for C#

MLH Local Hack Day

Brock University

HACKATHON

December 2018

- **1st Place** `Java` `Android` `Azure` devpost.com/software/cesnor
- Developed an Android app to censor offensive words from speech using Azure Cognitive services and Dictionary API.
- Quickly planed a project with a team, correctly estimated development time-line and efficient division of labor.

Volunteer Experience

- Volunteered for the Ontario Universities Fair in Toronto for the Brock Computer Science booth. September 2019
- Volunteered for Brock University's Open House at the Computer Science booth. April 2019
- Volunteered for the academic orientation and o-week at Brock University September 2018

Brock University Computer Science Club

Brock University

EXECUTIVE

April 2019 - Present

- Assisted with workshops and events held by the club, such as Microsoft AI Gaming Competition.