KSHITIJ SHAH

Aspiring Software Engineer

✉ kshitij.shah@mail.utoronto.ca
📞 (416) 505 - 4684
🌐 www.kshitijshah.me
github.com/KshitijShah-GitHub
linkedin.com/in/KshitijShah-in

Skills

Programming:	Python · Java · JavaScript · HTML/CSS · LaTeX · React · Spring Boot
Software Tools:	Jupyter Notebooks · Git · Android Studio · PyCharm · VSCode · Linux
Adobe CC Suite:	Illustrator · Photoshop · Premiere Pro · After Effects · Muse
Microsoft Office:	Excel · Word · PowerPoint · OneNote · Publisher · Outlook

Education

University of Toronto – Computer Science Specialist and Statistics Major
September 2017 - Present
- Pursuing Honors **Bachelor of Science** (BSc), expected graduation in May 2021
- Part of the **Technology Leadership Initiative**, a program dedicated to developing industry-based skills in students
- Current Courses: Systems Programming, Data Structs and Analysis, Multivariable Calculus, Statistics, Computer Organization

Software Projects

Space Tours Simulator – Hackathon Project
December 2018
- Worked in a team of 5 to create a **full stack web-app** with **React, Python,** and **Flask** in less than 12 hours
- Created backend and REST APIs which calculated trajectories using Hohmann Transfer Orbit equations
- **Awarded Best Educational Hack** at University of Toronto Scarborough's MLH Local Hackday

Linear Regression with Gradient Descent
June 2018
- Implemented **gradient descent** in a **Jupyter Notebook** from scratch to minimize a mean square error function
- Visualized data with 2D and 3D plots created with **matplotlib** and used **NumPy** for numerical computations
- Recorded detailed notes in **LaTeX** markup about relevant mathematical concepts and formulas

Taylor Series Estimator – A CLI Python Tool
May 2018
- **Applied calculus** concepts to develop an algorithm to estimate select elementary functions
- Optimized repeated calculations of factorials significantly with **dynamic programming** principles
- Wrote well documented and readable code

Solar Systems – An Educational Java Desktop Application
May 2017
- Created GUI application with the **JavaFX** framework
- Applied principles of **object-oriented programming** to write flexible and maintainable code
- Utilized years of **graphic design experience** to craft a modern UI and to gamify educational content

Experience

Ecomode | Web Developer
December 2018
- Developed a **React** based website for a student organized fashion initiative
- Designed and created site in less than 1 week working with one other student
- Communicated with the Ecomode team consistently for feedback and updated website accordingly

Design and Leadership Experience

TIFF 24-hour Film Challenge | Director and Editor
February 2016, February 2017
- Co-directed and edited two short films that were screened at the TIFF Bell Lightbox
- Developed strong communication skills working in a fast-paced environment with tight deadlines

Markham District Best Buddies Chapter | Mentor and Coordinator
September 2016 – June 2017
- Took a leadership role in supporting and mentoring disabled students
- Designed 15+ promotional items and helped organize several events throughout the year