



Sunil Kumar

I am a first-year post-graduate student at the University of Victoria with 3 years of full stack software development work experience with software product companies. I am seeking co-op opportunities where I can fully use my skills for the success of an organization and learn new skills on cutting edge technologies in the industry.

Education

M.Sc. in Computer Science Jan 2019 – Expected Dec 2020
University of Victoria, BC, Canada. – 7.33 / 9.0 GPA

Projects: DQN agent for Coinrun ([git.io/JvB5r](https://github.com/JvB5r)), Matchmaking for online multiplayer games ([git.io/JenE4](https://github.com/JenE4)) and DOTA2 win prediction ([git.io/JvB5P](https://github.com/JvB5P)).

B.Tech. in Information Technology Aug 2010-May 2014
NIT Durgapur, West Bengal, India. – 8.10 / 10.0 CGPA

Projects: Collage Study Point Website ([git.io/JenEB](https://github.com/JenEB)), Digital Clock on Multisim and Exploration bot.

Technical Skills

- **Languages:** Java, JavaScript, Python, Golang, SQL, C/C++, CSS, HTML5.
- **Tools & Frameworks:** Docker, Kubernetes, PyTorch, gRPC, Git, REST, JSON, Google Web Toolkit (GWT), JDBC, Hibernate, Electron, AngularJS, Eclipse Modeling Framework (EMF), JasperReports, Excel, AWS.
- **Concepts:** OOPs, Data Structures, Machine Learning, Agile practices, Deep Learning.
- **Operating Systems:** Linux, Windows.

Experience

Technical Associate / Zillious Solutions, New Delhi, India.

July 2018 – Dec 2018

- Developed a solution for a long-standing issue with java enum reaching its size limit, with minimum changes in the application.
- Added support for customizable vouchers and integrated multiple payment gateways including *Razorpay*, *Paytm*, etc.
- Integrated a pre-developed machine learning model into the application for finding duplicate hotels. Decreased the time for marking duplicate hotels by 90% in live search results for hotels.

Software Developer / Drishti-Soft Solutions, Gurugram, India.

June 2014 – Sep 2016

- Awarded with Excellence Award 2016 and won */tmp* 2014 a 10 days 24x7 coding event.
- Majorly worked on Ameyo Report, a GWT based front-end, and Jasper based backend; This includes a UI renew, backend enhancements and automating the generation of *Transformers*, a data de-normalization component, by using EMF modeling.
- Created a report scheduler based on the Quartz library with support for centralized reporting and graphical reports.
- Increased performance for a large customer's reporting database by 90% using table partition and multicolumn indexes.
- Increased performance of a statics managing component by 60% using soft references based cache for reflective calls.
- Developed a context-aware report designer with the Front-end based on GWT with data populating based on EMF model instances and outputs a proprietary file format (.drxml) which converted by the backend into a JasperReports based object. It was used to give demos to international customers as a future project.
- Created *Magic Numbers*: Predicts hardware requirements (CPU, RAM, and HDD) based on customer functional requirements.
- Delivered components for the automation of the collection process for an Indian Bank. Implemented a fresh UI, Integrating Hitachi Content Platform (HCP) for report storage, created a custom SSO authentication server & various domain-specific features like *Centralized Exclusion*.
- Interviewed candidates, prepared questions and did the training for new employees for the 2016 and 2017 hiring seasons.

Software Developer Intern / Morphing Machines, Bangalore, India.

June 2013 – Aug 2013

- Designed and developed the front-end interface for a research project called 'Development of A Flexible Framework for A Network On Chip'. We wrote a research paper about it ([git.io/Jen9I](https://github.com/Jen9I)).

Personal Interests

- **Video Games:** Won 2nd place in COBX and Aorus Land 2017 National DOTA 2 tournaments, 1st place in Playtonia Delhi and Indian LAN Gaming Cup Delhi DOTA 2 tournaments.
- **Karate:** Green belt in Shito Ryu Shūkōkai Karate.
- **Solving Programming Problems:** Won 1st place in *Behind the Scene* 2013, 1st place in *InCanity* 2013 and 2nd place in *Simplex* 2012.
- **Playing Chess:** 3rd, 1st and 2nd place in *Regional Sports Meet* in 2007, 2006 and 2005. Won a place in K.V. National Sports Meets.

References

- **Sahil Gandhi** (sahilgandhi2011@gmail.com) – Product Evangelist, Ameyo (previously known as *Drishti-Soft Solutions*).
- **Dr. Hausi Müller** (hausi@uvic.ca) – Professor, University of Victoria.