# Srinivas Sivakumar

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## EDUCATION

- **Georgia Institute of Technology** — Atlanta, GA
  *MS in Computer Science; Specialization - High-Performance Computing.* — *August 2022 - Present*
- **City University of Hong Kong** — Hong Kong
  *BEng. in Computer and Data Engineering; GPA: 3.91/4.3* — *August 2016 - July 2020*
  *Graduated with First-class honors. Rank 1 out of 44 students.*

## SKILLS

- **Languages**: Java, C++, Java EE, Bash, SQL, Javascript.
- **Tools and Frameworks**: Git, Jira, Cucumber, Springboot, React and Redux.

## EXPERIENCE

- **Barclays** — Hong Kong
  *Framework Developer* — *September 2021 - July 2022*
  - Worked closely with developers across algo-trading and connectivity projects to design and implement automation testing frameworks for new functionality.
  - Reduced LMX-algo testing timelines to 2 weeks from 4 weeks by using BDD in Cucumber Framework, and automating tests in parallel to development.

- **Transaction Technologies Limited** — Hong Kong
  *Technology Analyst* — *September 2019 - September 2021*
  - Lead developer of an analytics tool that consolidates customer and market data from different asset classes and markets. The tool also provided real-time alerts to customers by comparing market data to certain rules.
  - Built using Jakarta EE, Postgres, esper-tech for event processing, Hazelcast IMDG, React JS and Redux, and Knowage BI tool for reports and dashboards.

## ACADEMIC PROJECTS

- **Bacterial Genomic Reconstruction (Computational Genomics)** — City University of Hong Kong
  *Final-year Project* — *September 2019 - May 2020*
  - Built a memory-efficient, multi-threaded and scalable approach in C++ to recognize bacterial genomes from viral metagenomic data.
  - Chosen as one of the top final-year projects in the EE department of City University of Hong Kong.

- **IOT Platform for Agricultural Sensors** — University College of London
  *Summer Engineering Internship* — *June 2019 - August 2019*
  - Built an IOT platform to store real-time data from agricultural sensors in mongoDB.
  - An android application and a JS dashboard was created to visualize the stored data.

- **The Pineal - A device to help the visually impaired (Computer Vision)** — City University of Hong Kong
  *Jockey Club Youth Empathy Project* — *August 2017 - December 2018*
  - Developed a device to help visually impaired individuals bowl, that consisted of a raspberry Pi with a Pi camera mounted on a custom stand and an android application for audio feedback.
  - Presented at 'The World Maker Faire', New York in September 2018.

- **Pseudo TCAM: Packet Classification (Computer Networking)** — City University of Hong Kong
  *Research Assitant - Dr. Derek Pao* — *June 2018 - February 2019*
  - Helped develop an efficient alternative to TCAM devices for Packet Classification using an SRAM-based architecture.
  - Research paper published to IEEE Networking Letters in June 2019.

## PUBLICATIONS

- Weiwen Yu, Srinivas Sivakumar, Derek Pao, "Pseudo-TCAM: SRAM-based architecture for packet classification in one memory access", IEEE Networking Letters, June 2019.

## EXTRA-CURRICULAR ACTIVITIES

- **Treasurer and Secretary at EE Honor Society, CityU**: Founding member of the honor society (Jan 2018 - Sept 2018).
- **EE ACM team, CityU**: Team member who represented CityU at the ACM Regionals in Hong Kong (2018).
- **Peer Tutoring Scheme, CityU**: Helped junior students in coursework (Sept 2018 - Dec 2019).