

Amruthraghav Gopalakrishnan, Amruth

BSc Decision Analytics & Finance | Year 4 | The University of Hong Kong - 2021

LinkedIn

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Education

The University of Hong Kong (HKU)

Sep 2017 - May 2021

Bachelor of Science in Decision Analytics & Minor in Finance

- **GPA: 4.3/4.3** & CGPA: 3.75/4.3 (Dean's Honors List 2017,2018)
- Recipient of the Lee Shau Kee Scholarship of \$186,000 renewable annually (covers tuition, dorm & living expense).
- Relevant Coursework: **Big Data Analytics towards Quantitative Trading, Natural Language Processing in Fintech, Statistical Machine Learning**, Optimization; Database Management Systems(I and II), Data Structures & Algorithms, Data Visualization, Linear statistical Analysis, Probability & Statistics (I & II), Investment & Portfolio Analysis, Global Corporate Strategy, Management.

Sishya Indian Standard Certificate(ISC)¹

Class of 2017

- 97.5% in ISC public examinations which aided in receiving the Lee Shau Kee Scholarship
- Ranked within the top 1% of the country & was awarded INSPIRE by the Government of India

1-Equivalent to HKDSE public examinations

Selected Experience

Incoming Software Engineer, JPMorgan Chase and Co., Hong Kong

Aug 21

Summer Software Engineering Intern, JPMorgan Chase and Co., Hong Kong

Jun 20 – Aug 20

Interned under the Asset & Wealth Management LOB to build the leading and cutting-edge visualization tools using JPMorgan in-house frameworks for portfolio managers. Worked on Tech for Social Good project to develop a full-fledged application for Singaporean FoodBank to help in optimizing its collection, inventory and distribution of food items in less than six weeks. Helped HR in recruitment of interns for the firm.

Actuarial Intern, Swiss Re Asia Pvt. Ltd, Hong Kong

Jan 20 – Jun 20

Developed a cash flow check application for reconciliation and consolidation of cash flows from different data sources using Python. The application helped in automating the entire manual process from days to minutes. Programmed a cash-flow converter between two different internal systems (CRR to ADAM). Built an excel scrapper to pick up important stats from various treaties documents and showcase in a comprehensive dashboard view. Preparing quarterly presentation slides (LOB and SOE) for various market owners to present in cross-functional groups team meetings.

Summer IT Intern, Elkay Interior Systems, Hong Kong

Jun 19 – Aug 19

Back-end database management for ERP software. Prediction of future sales of the Elkay products by building a regression model on 60,000 historical transactions. Worked on building an NLP application to pick up important features of products to SKUs in the ERP software database.

Selected Projects (Please refer to my [website](http://www.amruthraghav.ml) for more info)

Finance Related Projects - *Trading Leisure and Travel Industry using Alternative Data, Predicting FED Fund rates using NLP, BioBlock - Wealth Management using Cryptocurrency(HSBC Financial Dialogue Finalists), NLP on 10K & 10Qs of Companies*

Software Related Projects - *weAR(Smartone Hackathon 2019 Champions), Code for Good(JPMorgan Chase & Co.,Finalists)*

Social Impact Projects - *Lifeline Solutions(Most Creative Idea and Video, Future Skills Innotech, HKFYG), Roshini - App for Eradication of Tuberculosis for India, Patient Flight Path Analytics for Hong Kong Healthcare System*

Selected Extra-Curricular Activities

Teaching Assistant for STAT8306(PG) and SCNC1112(UG), HKU

Jul 21 – Present

Preparing and conducting weekly tutorials & providing academic help to facilitate masters and UG students' learning.

Chief Quant & Technology Officer, HKU Trading Group

Aug 20 – Present

Leading a team of quant analysts in formulating and backtesting strategies on CRSP and CompuSTAT. Experience in financial data analytics and alternative data(Real Time Data) for equity research. Publish equity research and quant reports for US markets.

Campus Student Ambassador, JPMorgan Chase and Co.

Aug 20 – Present

Worked alongside the campus recruitment team in recruiting interns for different internships programmes

Student Ambassador & Academic Advisor, Science Faculty, HKU

Sep 17 - Sep 21

Shared University life experience with students, provide them advice on academic fronts & help them in their course selection.

Skill Set

Languages: Python, Java, C++, R, JavaScript, Swift, SQL, Eclipse, HTML5, CSS3, English, Tamil, Hindi, German,

Databases: MySQL, BlazingSQL, KDB+, DuckDB, Parquet, ClickhouseDB, PostgresDB, MongoDB

Machine Learning: Supervised and Unsupervised Models, Dimensionality Reduction, CNNs, RNNs, NLP.

Development Tools: Firebase, Flutter, React.js, Node.js, Ionic, Angular, Flask, Unity, Keras, TensorFlow, OpenCV,

Cloud Technologies: Amazon RDS, EC2, S3, & Microsoft Azure.

Business Intelligence: Tableau, PowerBI, Salesforce.

Certification: Data Mining & Data Analytics using Python & R from the Government of India.

Other Software's: Complete Microsoft Office with Adobe Photoshop, Illustrator, After Effects, Premiere Pro & XD.