

# Nandan Uday Sukthankar

Email: [nandans16@gmail.com](mailto:nandans16@gmail.com) Contact: +91 88059 58598 / +91 86690 94487

## QUALIFICATIONS

Qualification	Institution/ Board	Year	Specialization
Actuarial Science	Institute of Actuaries of India	Sep 2017 to present	Cleared CT1 (Financial Mathematics), CT2 (Finance and Financial Reporting) and CT5 (Contingencies)
B. Tech	College of Engineering, Pune	2017	Computer Engineering (8.99 CGPA)
12 <sup>th</sup> (HSC)	Modern College, Pune	2013	Science (88.50%)
10 <sup>th</sup> (SSC)	Symbiosis School, Pune	2011	92.37%

## TECHNICAL SKILLS

- **Programming languages:** Python, R, SQL, C, Java, JavaScript, JSON, Android.
- **System Skills:** Microsoft Excel (Pivot tables, Lookup), Macros, Visual Basic for Applications (VBA), Microsoft Access, R studio, MATLAB, Octave, GitHub.

## EXPERIENCE

- Software Engineer – HSBC Technology India Aug '17 – Present  
Worked in transaction monitoring and risk management as a part of the Anti Money Laundering team in the Financial Crime Risk IT Department at HSBC. Part of innovation group within the team, working on new technology to enhance the process of alert generation and manage risk in a better way.  
- **Technologies:** Hadoop, Hive, SQL
- Math and Brain Assessment Toolset – Ekalavya Internship at IIT Bombay May '16 – Jul '16  
Developed a configurable learning platform for kids of age group 4-9 years, to enhance mathematical and cognitive thinking, under the guidance of Padma Shri Dr. Deepak B. Phatak.  
- **Technologies:** Data Driven Architecture, JavaScript, JSON, Three.js, SDLC execution.
- Demographic Surveillance System for 'SEARCH', a non-profit organization May '15 – Jan '16  
Developed and deployed an Android App for public healthcare, transferring all paper work to tablets, in villages near Gadchiroli, under the guidance of Dr. Abhay Bang (Director, SEARCH, Social Activist Researcher)  
- **Technologies:** Android, developed Translation API, Wi-Fi Peer-to-peer

## RELEVANT COURSEWORK

- **Mathematics:** Linear Algebra and Differentiation (Engg. Maths 1), Ordinary Differential Equations and Integration (Engg. Maths 2), Partial Differential Equations and Vector Calculus (Engg. Maths 3), Probability Theory and Statistical Inference (Statistics)
- **Core:** Data Structures and Algorithms, Database Management Systems, Design and Analysis of Algorithms, Discrete Structures and Graph Theory
- **Electives:** Foundation of Finance, Artificial Intelligence, Machine Learning, Operations Research

## PROFESSIONAL DEVELOPMENT

- Attended the 1<sup>st</sup> **Seminar on Investment and Finance** organized by the Institute of Actuaries of India in May'18
- Attended the 6<sup>th</sup> **Young Actuaries Connect seminar** organized by the Institute of Actuaries of India in Oct'17
- MOOCs:
  - **Introduction to Actuarial Science** – (Australian National University - edX) (Final Grade: 97%)  
Course had extensive assignments on modelling in Excel on actuarial data.
  - **Excel/VBA for Creative Problem Solving** – (CU Boulder - Coursera) (Final Grade: 97%)
  - **R Programming** – (Johns Hopkins University - Coursera) (Final Grade: 96%)
  - **Machine Learning** – (Stanford University - Coursera) (Final Grade: 94.9%)

## PROJECTS

- nQuery - Natural Language Statement to SQL Query Generator (B. Tech Project) Aug '16- May '17  
*Paper published in proceedings of the ACL SRW 2017, Vancouver, Canada ([Link](#))*  
 Developed a system which converts natural language sentences to SQL queries. The system can generate simple queries, and complex queries involving natural and inner joins (multiple tables). The system works irrespective of the underlying MySQL database. ([GitHub](#))  
 - Technologies – Python, MySQL
- Developed a Web Application for a Movie scheduling and booking System as a part of 'Database Management Systems' course. Jul '15 – Nov '15  
 - Technologies – SQL, JSP, Android, Job Scheduling algorithm, Greedy Approach.

## POSITIONS OF RESPONSIBILITY

- **Regatta Secretary (Overall Head - team of 28 members)** for the 88<sup>th</sup> edition of **Regatta**, an annual boating event of the College of Engineering Pune, held on 6<sup>th</sup> March 2016.
- **Web Development Head of ACM** (Association for Computing Machinery) at College of Engineering, Pune (COEP) during academic year 2015-16.
- Member of **organizing committee at the IEEE International Conference on Computing, Analytics and Security Trends (CAST-2016)** held at College of Engineering, Pune in December 2016.

## VOLUNTEERING EXPERIENCE

- Member of '**Action for Pune Development**' (APD) since February 2017, a non-governmental organization working towards spreading awareness for the overall development of the youth of the city.
- Conducted river water pollution awareness rallies and tree plantation activities as part of **Jalmaitri, an initiative by COEP Boat Club**.
- Participated in the **tree plantation drive** organized at Chattushringi Hill, a CSR activity planned by HSBC.

## ACHIEVEMENTS

- Received the '**Ekalavya**' Fellowship for Summer Internship at IIT Bombay as a Software Developer.
- Paper published in the proceedings of the **ACL SRW 2017 held at Vancouver, Canada**.
- Participated in the '**Smart India Hackathon**' organized by the HRD Ministry, Govt. of India, held in April 2017.
- **Interviewed on All India Radio** (Akashvani) regarding the event 'Regatta'.
- Awarded the **Philip George Trophy for Second Year Best Male Rower** in the 87<sup>th</sup> Regatta.

## EXTRACURRICULAR ACTIVITIES

- **Kayaking, Rowing** – Represented COEP Boat Club at state and national level competitions.
- **Trekking** – Completed various treks and hikes in the Sahyadris and Himalayas.
- **Running** – Completed various 10 Km marathons in Pune.

## PERSONAL DETAILS

- Languages: English, Marathi, Hindi - Full Working Proficiency  
 German, Spanish – Elementary Proficiency.
- Address: B-1, Deepak Apts., Model Colony, Shivajinagar, Pune, Maharashtra, India
- Email: [nandans16@gmail.com](mailto:nandans16@gmail.com)
- Contact: +91 88059 58598 / +91 86690 94487
- LinkedIn: [linkedin.com/in/nandansukthankar](https://www.linkedin.com/in/nandansukthankar)