

# Gireesh Singh Thakurathi

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## EDUCATION

**Stevens Institute Of Technology:** Master of Science in Computer Science: NJ, US Expected 2021

- **Honors:** Masters Fellowship Award of 20,000 USD

- **Courses:** Adv Algorithm, Database Management Systems- 2, Project Management, Deep Learning, AI, ML

**Mumbai University:** Bachelor of Engineering in Computer Engineering: CGPA- 3.36: Mumbai, India 2017

- **Courses:** Object-Oriented Programming, Structured Programming Approach, Data Structures, OS, Web Technology

## WORK EXPERIENCE

**Software Engineer - JP Morgan Chase. Mumbai, India - 07/2017 - 07/2019**

- Enhanced spring batch jobs by 85% by multithreading existing jobs, remodelling, eliminating overheads & dead code
- Delivered swift, sfms, consolidated invoice, reclass utility & report generation utilities used by 1000+ corporate clients
- Automated execution of spring, mule batch jobs based on type, region, branch & processing dates using Autosys JIL files
- Increased unit code coverage (TDD) of 12,000+ lines from 45% to 90% in 2 months using Mockito & Junit framework
- Reduced backend testing by 80% using BDD for 200+ devs using Cucumber, JMS and in-memory DB like H2DB & HSQL
- Provided production stability & maintenance during application release & fixed post-release bugs in live environment
- Tech Stack: Google Web Toolkit, Java, Spring, Hibernate, REST, SOAP, Mule ESB, MQ, JMS, JUnit, Cucumber, Gherkin

**Data Wrangling Summer Industrial Trainee - ONGC. Mumbai, India, 06/2017 - 07/2017**

- Drew key insights from 10 yr revenue streams to evaluate & visualize trends after cleaning, transforming & reducing data
- Deployed the web app to display desired data from DB based on the revenue stream, service type, location, profit/loss
- Tech Stack: Pandas, Numpy, Matplot, MongoDB, Jupyter notebook, HTML, CSS, PHP, JDBC

**Website Developer - The Institution Of Engineers India (IEI). Mumbai, India - 11/2016 - 02/2017**

- Designed, created, hosted and supported IEI website used by 1000+ users and 10+ admins for 3 months
- Facilitated account creation, event registration, online payment (via Razorpay) and advertisement updates by sponsors
- Tech Stack: Bootstrap, Twilio, Razorpay payment gateway, Javascript, jquery, PHP, phpMyAdmin, HTML, CSS

**Teaching Assistant - Brilliance Classes. Mumbai, India - 06/2015 - 08/2015**

- Conducted lectures, drafted question papers & solution sets on Object-Oriented Programming for 80+ students
- Schedule extra lectures by coordinating with students & faculty when needed. Acted as a point of contact between them

**HACKATHON: CodeForGood 2016:** Shortlisted in top 20 from 10+ universities for full-time job offer at JP Morgan

- DreamADream NGO WebApp. Unique features: SMS, Interactive Voice Response(IVR), data visualization by Google chart

**SKILLS, SCORES AND RESEARCH - Standardised Test Scores: GRE: 321/340; TOEFL: 116/120**

- **Languages:** Java, C, Python, JIL, gherkin, SQL, PHP, JS, HTML, CSS, JSON, XML, Drools
- **Framework:** Spring, Hibernate, Maven, MVC, GoogleWebToolkit, JUnit, Cucumber, Rest, MaterializeCSS, Bootstrap
- **Misc:** Mule ESB, Git, JMS, Eclipse, IBM Websphere, BDD, Google Analytics, Oracle 11g, HSql, AWS, Sonar, Jenkins, Jira
- **Research Paper:** 3D scene retrieval from Text (International Journal of Research in Emerging Science & Technology)

## PROJECTS

- **Text to 3D Scene (NLP):** Converted descriptive text into 3D scene using Java, Python, Stanford CoreNLP, Blender
- **Bluepolymath.com:** Personal website hosted and created using MaterializeCSS framework, Javascript, HTML and PHP
- **Make-a-wish(JP Morgan's ForceForGood):** Created a cross-platform application that helps terminally ill children
- **Handwritten Digit Recognition:** Achieved accuracy of 97% using Convolutional neural network, Pandas, Scikit-learn
- **WebRTC:** Created peer to peer chat using Google WebRTC (Real-Time Communication) & PeerJS for healthcare startup

## EXTRACURRICULARS ACTIVITIES

- **University Focus Team:** Represented JP Morgan and coordinated with 10+ universities for hiring recent graduates
- **Evidyaloka:** As a UN content developer, designed Grade 8 Math syllabus, helping 20,000 children of rural India per yr
- **Akanksha:** Taught English, maths to 120, drafted question papers, graded tests & organized school events for 1 yr