

# Sohan Patil

Github: [github.com/sohanpatil](https://github.com/sohanpatil)

Portfolio: [sohanpatil.github.io](https://sohanpatil.github.io)

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## EDUCATION

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- **Stony Brook University (SUNYSB)** Stony Brook, New York  
*M.S. in Computer Science* Aug 2019 - Expected Dec 2020  
*Courses: Distributed Systems, Analysis of Algorithms, Data Science, Human Computer Interaction*
- **Government College of Engineering (GECA)** Aurangabad, India  
*B.E. in Computer Science and Engineering; GPA: 8.345/10 (Top 10% in class of 72)* July 2013 - June 2017

## SKILLS

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- **Languages:** Proficient - Java, C, Typescript, Go, HTML / CSS. Prior Experience - C#, Python, PHP, SQL, Shell, JavaScript
- **Tools and Frameworks:** Angular, Spring Framework, Android, Docker, Java Message Service, MapReduce, GIT, JIRA, Bamboo, Matlab, Pandas, Matplotlib, JSP, ASP .Net, OpenMP, CUDA

## WORK EXPERIENCE

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- **Principal** (part of Principal Financial Group, Iowa) Pune, India  
*Software Development Analyst* July 2017 - August 2019
  - Involved in development of an in-house OCR Document and Data Capture tool as a replacement to IBM's DataCap, potentially saving \$500,000 per year in licensing costs
  - Revamped Individual/Group Insurance Policy web-app using Angular 5 and Bootstrap. Provided dashboard view to help agents track their data. Secured REST API endpoints by integrating OAuth2 security framework
  - Saved a total of 150 man hours every 2 week sprint by implementing a Mulesoft based solution to synchronize Salesforce cloud DB with on-premise DB2 LUW database
  - Improved team efficiency by 15% by automating Git branch cleanup task using Selenium API + shell scripting
  - Implemented fine grained access control to secure data views of the enterprise wide MDM tool
  - Used Google Web Speech API and rule-based ML to enable management of JIRA tickets through voice
  - Improved CI/CD pipeline and reduced go-live time upto 30% by integrating code analyzer tools like SONAR and HP Fortify with Bamboo build plans. Wrote JUnits and followed Test Driven Development approach attaining 100% code coverage in some modules
  - Trained 6 interns on domain knowledge as well as Agile practices, Git, Angular and Bootstrap Framework

## KEY PROJECTS

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- **Distributed MapReduce:** Implemented a fault tolerant MapReduce scheduler in Go (SUNYSB, Aug '19)
- **Spoiler Blocker Chrome Plugin:** Leveraged TMDb API to block (blur-out) posts on Facebook filled with movie spoilers (April '19)
- **Simple DB:** Implemented a basic clone of SQLite which uses B Tree and B+ Tree as Index and Page file nodes (Jan '19)
- **Live Twitter Sentiment App:** Experimented with NLTK, Tweepy and Pandas to provide a live DASH graph to plot tweeps' sentiment against input keywords. Compared VADER and TextBlob approach reaching 83% accuracy (Jan '19)
- **Remote File Security System:** Used inter-platform IPC to encrypt/decrypt and manage user's files on a shared computer via an Android app (GECA, 2016-17)
- **Coding Contest Platform:** Developed a LAMP stack based programming contest platform that was able to handle 500+ users simultaneously (GECA, 2016)

## ACHIEVEMENTS & EXTRACURRICULAR

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- **All Staff Award, Principal:** for efficiently managing the dual role of a Developer & Business Analyst (March '19)
- **Rising Star Award, Principal:** for delivering 2.2x of expected in Q3 & Q4 of 2017, amid 500+ employees (May '18)
- **Project Of The Year, Principal:** awarded a total cash prize of INR 55000 for 'Aatmanirbhar', a project that enabled 180+ deserving underprivileged graduates with IT jobs (Nov '18)
- **Winner** of SEED Maha IT Idol ([news link](#)), a state level coding contest against 75000+ competitors (April '16)
- **Finalist** in TCS Testimony, a national level code quality assurance competition in a pool of 85,000+ others (July '16)
- **Winner** of CodeKing (2015), a state level coding competition by DIEMS, Aurangabad against 3000+ entrants (Oct '15)
- **Finalist** in 'Manifest', a website development hackathon organized by IIT, Bombay (Jan '15)