

# DANNY BASAVARAJU

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## EDUCATION

**Indian Institute of Management Calcutta**

*MBA, Management Engineering*

**August 2018 - May 2020**

*GPA: 3.7*

**Indian Institute of Technology Delhi (IITD)**

*Bachelor's, Computer Science*

**August 2012 - May 2016**

*GPA: 3.5*

## CERTIFICATIONS

**Certifications:** MIT OpenCourseWare – Distributed Systems & Cloud Computing, Coursera: Advanced Data Structures (Stanford), Google Cloud Professional Cloud Architect Certification

**Competitions:** LeetCode (Top 5% globally), Topcoder Algorithm Challenges, Kaggle – Machine Learning & Software Engineering Competitions, Hackathons – Winner/Finalist

**Coursework:** Advanced Algorithms & Data Structures, Distributed Systems & Microservices Architecture, Cloud Computing & Kubernetes, Machine Learning & AI Engineering, Scalable Backend Development, High-Performance Computing & Parallel Processing, Software Design Patterns & System Architecture, DevOps & CI/CD Pipelines, Database Query Optimization

## SKILLS

Skills: Node.js, Cassandra, GCP, Neural Networks, Tensorflow, Data Structures & Algorithms, Route 53, WebKit, Cryptography, caching, AWS, MATLAB, C/C++, Flutter, ETL, LangChain, Unity, Apache Spark, Tableau, Selenium, Git, multi-threaded, Airflow, TypeScript, Next.js, specs, ES6, deep learning, Product Management, CD, Linux, CI, Atlassian, R, MongoDB, project management, Flask, Postgres, e-commerce, Management, Wireframe, WebRTC, Reinforcement Learning, JIRA, Scikit-learn, Hubspot, Financial Modeling, Figma, Computer Networking, Excel, FastAPI, product management, Natural Language Processing (NLP), JavaScript, data science, Python, UI/UX Design, Asana, AngularJS, PowerPoint/Keynote/Slides, Business Analytics, communication skills, code review, Apache Kafka, cloud technologies, Redis, product specs, Redux.js, Wordpress, database, Machine Learning, Django, Hibernate, Snowflake, Hotjar, Solidity, GraphQL, Nest.js, RDBMS, Computer Vision, LLM, operating systems, Webflow, Confluence, NoSQL, Pandas, Product Design, Vim, BigQuery, Excel/Numbers/Sheets, Amplitude, C#, Quantitative Analysis, REST APIs, frontend, CUDA, Docker, Heroku, user interface, SDLC, SQL, Discrete Math, NumPy, React Native, Apache Hive, containerization, mobile web, Scala, Pytorch, Postman, Mixpanel, data engineer, Web Development, Blockchain, Kubernetes, data modeling, product development, compliance, production scale-up, simulation, medical laser devices, validation, prototype, quality control, interdisciplinary teams, R&D Engineer, Mathematica, algorithm development, numerical computation software

## PROFESSIONAL EXPERIENCE

### SYBILL

*Research And Development Engineer*

**Mountain View, CA, USA**

*January 2024 - Present*

- Developed numerical algorithms in MATLAB for medical lasers, improving output by 30% and reducing errors by 15%
- Designed compliant, high-efficiency backend systems (MATLAB, Python) enabling seamless integration with complex datasets
- Engineered robust simulation algorithms for medical devices, optimizing performance by 40%, reducing testing time by 25%

### QUANTGRO WEALTH MANAGEMENT

*Research And Development Engineer*

**Bangalore, KA, India**

*January 2023 - December 2024*

- Engineered predictive medical laser models, enhancing performance reliability by 35% and analytical accuracy by 40%
- Developed real-time analytics pipelines in Octave, halving latency and advancing device data processing capabilities
- Led multi-disciplinary team, expediting R&D iterations by 30% through agile methodologies in complex environments
- Deployed advanced medical device features, enhancing operational reliability and product scalability effectively
- Built specialized automation scripts in Mathematica, boosting R&D productivity by 50%, minimizing manual analysis by 45%

### CHILL PANDA TECH

*Research And Development Engineer*

**San Francisco, CA, USA**

*January 2021 - December 2023*

- Deployed a resilient device software architecture, ensuring 99.9% operational uptime, completed prototype swiftly
- Engineered real-time compliance systems, supporting regulatory transactions, and onboarded critical case studies
- Integrated advanced AI for stakeholder interactions, improving data insights by 25%, reducing analysis time by 40%

- Developed adaptive device algorithms, increasing output precision by 30% through customized data flows optimization
- Built a modular R&D framework, accelerating design iterations by 50% and enabling adaptable prototyping processes
- Led cross-disciplinary integration for seamless device architecture, delivering exceptional multi-system integration

## **Osmo**

**Palo Alto, CA, USA**

*Research And Development Engineer*

*January 2020 - December 2021*

- Led strategic R&D alignment, optimizing product methodologies for a \$40M tech initiative, achieving substantial growth
- Designed a \$15M R&D-compliance strategy utilizing predictive modeling to enhance seasonal innovations and outcomes
- Managed lifecycle development for 43 medical solutions, achieving \$75M in alignment with validation and compliance
- Integrated model-based analytics, ensuring robust logistics for medical supplies, contributing \$10M in efficiencies
- Partnered with leadership to present data-driven R&D insights, adapting strategies with critical executive alignment

## **RIVIGO**

**Bangalore, KA, India**

*Research And Development Engineer*

*January 2016 - December 2018*

- Developed innovative R&D logistics, supporting relay models across 100 cities, enhancing device distribution efficacy
- Sole developer of a key module facilitating extensive logistics, vastly improving operational prediction accuracy
- Led an engineering team to design client reporting systems, ensuring real-time data exchange and compliance insights

## **ENTREPRENEURIAL VENTURES**

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### **PAISADB - PROP TRADING FIRM**

**Bangalore, KA, India**

*Founder (Started as side project)*

*January 2023 - December 2024*

- Developed an algorithmic trader managing a portfolio of \$50k, 52 companies; enabling complete hands-off arbitrage trading
- Achieved back tested CAGR of up to 20% over 10 years by implementing momentum, mean-reversion, pairs trading strategy
- Developed a 3-layer neural network to identify actionable patterns between analyst recommendations & market performance

### **MULTIPLE EARLY-STAGE STARTUPS**

**Bangalore, KA, India**

*Advisor and Consultant (Part-time)*

*October 2021 - Present*

- Developed a Pitch Deck from scratch, planned to pitch to Angel investors, VCs for fundraising for a Developer SaaS startup
- Participated in India's first Web3 accelerator – Founder-ship, engaging with multiple Web3 founders, angel investors & VCs
- Assisted an EdTech startup with 25k downloads and \$20K ARR in business strategy, fundraising support and go-to-market
- Supported a deep-tech startup at the seed stage, revolutionizing video sales & marketing by mass personalization automation

### **ARICEUM (COURSERA FOR HIGH-SCHOOLERS)**

**San Francisco, CA, USA**

*Chief Product & Technology Officer*

*January 2022 – May 2022*

- Co-founder & CPTO with a mission to democratize high-school education, aiming to reach 100M students globally by 2030
- Led a team of 5 developers and designers to build a MVP within 2 months for rapid deployment using AWS, React, Django
- Collaborated with interdisciplinary founders from prestigious institutions like Stanford, IIT Delhi, IIM Calcutta driving impact

## **ACADEMIC PROJECTS**

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### **BUSINESS VALUATION**

**Kolkata, WB, India**

*Fundamental analysis for Business Valuation*

*January 2019 - June 2019*

- Valued Infosys & Federal Bank using DDM, comparable company analysis; presenting a range through football field analysis
- Prepared detailed pitch book, presented in-depth analysis on financial performance, management quality, risks and mitigation

### **INVESTMENT AND PORTFOLIO MANAGEMENT**

**Kolkata, WB, India**

*Portfolio management and optimization*

*January 2020 – June 2020*

- Analyzed Nifty 50 to construct, manage & maximize returns on a virtual portfolio applying different investment philosophies
- Achieved returns of 14.28% in 1-year period with Sharpe ratio of 2.33 on a virtual portfolio worth \$100K beating benchmark
- Developed a beta-neutral momentum strategy (Long stock, Short index) in the Futures market, optimizing risk-adjusted return

## **ACADEMIC DISTINCTIONS**

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- Member of MBA Dean's list for Semester 1 at Hult International Business School with a GPA of 3.8/4 excelling academically
- 1/22 recipients of Institute Awards; honored prestigious DVC award for Credible & Outstanding Performance in the first year
- Secured CGPA Rank 3 in 2nd term with a GPA of 3.9/4 and held CGPA Rank 14 until the 2nd term with overall CGPA 3.6/4
- Achieved All India Rank 30 in IIT-JEE, placing in the top 0.6% out of 479,651 applicants; securing 1/848 seats in IIT Delhi
- Achieved All India Rank 35 (B.Arch) and Rank 68 (B.Tech) in AIEEE, placing in the top 0.11% out of 1,137,256 applicants
- Achieved State Rank 8 in highly competitive & prestigious Mathematics Olympiad by Association of Mathematics Teachers
- School Topper; consistently ranking 1<sup>st</sup> and 2<sup>nd</sup> across 10 consecutive years at Atomic Energy Central School (CBSE), India