DANNY BASAVARAJU

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# EDUCATION

## Indian Institute of Management Calcutta August 2018 - May 2020

*MBA, Management Engineering GPA: 3.7*

## Indian Institute of Technology Delhi (IITD) August 2012 - May 2016

*Bachelor's, Computer Science 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: Wireframe, Discrete Math, Tableau, database, Asana, operating systems, product management, code review, Hibernate,

Blockchain, SDLC, MongoDB, full-stack, Django, containerization, Scala, Computer Vision, mobile web,

Excel/Numbers/Sheets, LangChain, Zeplin, Apache Spark, NoSQL, data engineer, Apache Hive, CloudFormation, data modeling,

TypeScript, WebKit, Selenium, ES6, FastAPI, WebRTC, Data Structures & Algorithms, attention to detail, e-commerce,

Product Management, caching, NumPy, Financial analysis, Neural Networks, Machine Learning, Data Analysis, Redux.js,

Cryptography, specs, R, Heroku, frontend, Redis, Cassandra, Amplitude, CD, Pandas, React.js, Reinforcement Learning,

Python, Kubernetes, UI/UX Design, Webflow, Financial Modeling, project management, Mixpanel, Azure, Computer Networking,

Apache Kafka, Route 53, Linux, Hubspot, Unity, Postgres, CUDA, Snowflake, GraphQL, technical support, React Native, SQL,

GCP, CI, Hadoop, JavaScript, Wordpress, C/C++, PowerPoint/Keynote/Slides, cloud technologies, Quantitative Analysis,

Management, ETL, Excel, Hotjar, product specs, Flutter, C#, data science, communication skills, Next.js, Web

Development, RDBMS, LLM, Business Analytics, Power BI, Pytorch, Airflow, Git, Product Design, multi-threaded,

Tensorflow, AWS, Flask, Operating Systems, Solidity, Postman, Confluence, deep learning, Consumer electronics, Firmware

Engineer, ARM Cortex architecture, C/C++ programming, Low-power systems, Debugging, STM32 microcontrollers, Android Open

Source Project, Wireless communication protocols, Embedded systems, Real-time operating systems, Hardware design, Cross-

functional teams, Documentation, MCUs

# PROFESSIONAL EXPERIENCE

## SYBILL Mountain View, CA, USA

*Firmware Engineer IV January 2024 - Present*

* Designed robust, fail-safe firmware for real-time systems, enhancing MCU performance by 30% and reducing power use by 15%
* Developed high-performance firmware interfacing with ARM Cortex M0/M3/M4, improving response times and stability
* Engineered low-level drivers for STM32 microcontrollers, increasing peripheral integration efficiency by 40%

## QUANTGRO WEALTH MANAGEMENT Bangalore, KA, India

*Firmware Engineer IV January 2023 - December 2024*

* Optimized firmware for ARM Cortex devices, boosting decision accuracy by 35% and system efficiency by 40%
* Built low-latency communication interfaces, cutting data processing time by 50%, enhancing embedded system performance
* Directed cross-functional firmware integration, streamlining Agile development processes to hasten releases by 30%
* Implemented scalable embedded systems solutions for device management, improving system reliability and uptime
* Developed automation scripts and internal tools, enhancing firmware testing productivity by 50%, reducing manual interventions

## CHILL PANDA TECH San Francisco, CA, USA

*Firmware Engineer IV January 2021 - December 2023*

* Created firmware architectures for embedded systems, ensuring 99.9% uptime with timely prototype delivery
* Developed real-time processing algorithms for $1M+ transactions, successfully integrating 10 consumer electronics clients
* Integrated personalized firmware features using AOSP, reducing support queries by 40% and improving user retention by 25%
* Utilized C/C++ to enhance firmware for adaptive systems, increasing device efficiency and client revenue by 30%
* Constructed modular firmware architecture, accelerating integration by 50% and enabling rapid iteration
* Led in designing a seamless embedded firmware interface, delivering an enhanced user command interaction

## Osmo Palo Alto, CA, USA

*Firmware Engineer IV January 2020 - December 2021*

* Directed firmware optimization to accelerate sales processing, achieving a 50% revenue growth in a consumer electronics market
* Devised firmware specifications for $15M projects leveraging mathematical analysis to boost system performance
* Managed comprehensive firmware projects for numerous MCUs, optimizing system cost efficiency and performance
* Integrated embedded analytics into ARM firmware to ensure logistics optimization, contributing significant revenue growth
* Collaborated with executive teams on firmware strategy presentations, delivering significant insights on embedded solutions

## RIVIGO Bangalore, KA, India

*Firmware Engineer IV January 2016 - December 2018*

* Developed innovative firmware to support logistics on a vast network, enhancing operational efficiency across devices
* Independently developed a critical MCU module, facilitating a massive increase in logistic operations and delivery efficiency
* Led a small team in developing client-facing dashboards, enhancing cross-functional communication and real-time data access

# ENTREPRENEURIAL VENTURES

## 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

## 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

* 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 1st and 2nd across 10 consecutive years at Atomic Energy Central School (CBSE), India