

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: 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

Firmware Engineer IV

Mountain View, CA, USA

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

Firmware Engineer IV

Bangalore, KA, India

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

Firmware Engineer IV

San Francisco, CA, USA

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