

# 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: product management, attention to detail, Scala, Product Design, NumPy, communication skills, Apache Kafka, WebRTC, Reinforcement Learning, e-commerce, Cassandra, JavaScript, Snowflake, Discrete Math, ES6, REST APIs, JIRA, Django, SQL, React Native, project management, Mixpanel, UI/UX Design, AWS, Python, R, BigQuery, deep learning, Neural Networks, Selenium, Git, PowerPoint/Keynote/Slides, database, Blockchain, user interface, Hadoop, Pandas, Figma, Postgres, MATLAB, Postman, data modeling, technical support, React.js, LLM, NoSQL, Business Analytics, MongoDB, RDBMS, Hubspot, Tensorflow, Product Management, C#, CD, caching, Route 53, Flutter, Next.js, CloudFormation, Wordpress, Amplitude, Apache Spark, operating systems, CUDA, Docker, CI, LangChain, Redis, code review, Flask, containerization, Airflow, GCP, cloud technologies, WebKit, data engineer, data science, Solidity, mobile web, Heroku, GraphQL, Redux.js, Financial Modeling, Pytorch, Confluence, Azure, Hibernate, Asana, Vim, Webflow, FastAPI, SDLC, Operating Systems, TypeScript, frontend, Natural Language Processing (NLP), C/C++, Excel/Numbers/Sheets, Data Analysis, AngularJS, Web Development, Hotjar, multi-threaded, Power BI, Excel, full-stack, Machine Learning, Wireframe, Financial analysis, Management, Kubernetes, Unity, Computer Vision, Scikit-learn, object-oriented design, PID systems, C++ programming, semiconductor processing equipment, digital signal processing, VxWorks RTOS, ultrasonic wire bonding, control theory, motion trajectories, embedded applications, C programming, multi-degree-of-freedom robotics, real-time processes, servo control systems, cross-functional collaboration

## PROFESSIONAL EXPERIENCE

### SYBILL

*Staff Software Engineer*

**Mountain View, CA, USA**

*January 2024 - Present*

- Engineered software for high-performance servo control systems, boosting semiconductor equipment precision by 30% and efficiency by 10%
- Designed real-time software systems for multi-degree-of-freedom robotics within high-stakes electro-mechanical environments utilizing C++
- Developed robust motion control algorithms, enhancing PID system performance by 25%, reducing trajectory calculation errors through higher-order polynomial methods

### QUANTGRO WEALTH MANAGEMENT

*Staff Software Engineer*

**Bangalore, KA, India**

*January 2023 - December 2024*

- Advanced DSP programming for motor controls, achieving 35% improvement in operational effectiveness and precision in power semiconductor manufacturing
- Designed and implemented real-time processing pipelines for motion control, reducing latency by 50% and enhancing semiconductor processing speed
- Led a team in developing software for servo mechanisms and digital signal processing, accelerating design cycles by 30% and enhancing innovation
- Established end-to-end software for electro-mechanical subsystems, optimizing functionality, and reliability for semiconductor machinery
- Streamlined servo control software debugging processes, increasing engineering productivity by 50% and minimizing manual system calibration

**CHILL PANDA TECH***Staff Software Engineer***San Francisco, CA, USA***January 2021 - December 2023*

- Deployed software architecture supporting multi-faceted servo applications, ensuring 99.9% uptime and rapid feature integration within 3 months
- Engineered real-time control algorithms for processing equipment, enhancing operational throughput for over \$1M in semiconductor handling annually
- Integrated advanced machine learning for servo systems, increasing motion control system reliability by 25% and reducing fault occurrences by 40%

- Developed dynamic control algorithms for semiconductor systems, increasing manufacturing efficiency by 30% through precise motion trajectories
- Constructed robust modular control systems, accelerating software updates by 50% and enhancing responsiveness to component changes
- Directed development using object-oriented methodologies in hard real-time environments, ensuring seamless operation for mission-critical applications

## **Osmo**

**Palo Alto, CA, USA**

*Staff Software Engineer*

*January 2020 - December 2021*

- Spearheaded strategic improvements in servo control software, achieving 50% enhancement in high-performance manufacturing equipment output
- Created strategic motion optimization models for semiconductor equipment, leveraging control theory to optimize mechanical efficiency and ROI
- Managed comprehensive lifecycle processes for servo software, driving \$75M in performance improvements, optimizing motion path efficiency
- Implemented advanced servo control analytics, ensuring supply chain robustness and contributing to \$10M in manufacturing stability
- Collaborated with senior leadership on servo design strategies, delivering data-driven insights with significant impact at executive levels

## **RIVIGO**

**Bangalore, KA, India**

*Staff Software Engineer*

*January 2016 - December 2018*

- Developed innovative logistics control software for extensive network operations, enhancing equipment relay systems across multiple regions
- Pioneered Pickups software module, upgrading logistic capabilities to facilitate over 300,000 precise operations, improving system throughput
- Led engineering efforts to develop client-specific servo dashboards, enabling precise, real-time insights and operational tracking for 100+ applications

## **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