James Burke

jcburke@colgate.edu — 516-319-8731 — linkedin.com/in/jamesburke — github.com/james-burke8

Education & Honors

Colgate University Hamilton, NY
Bachelor of Arts; Double Major: Economics, Computer Science *May 2025*
- GPA: 3.64 / 4.00; (Economics: 3.76 / 4.00; Computer Science: 3.77 / 4.00)
- Relevant Coursework: Financial Economics, Applied Econometrics, Intermediate Microeconomics, Intermediate Macroeconomics, Urban Economics, Data Structures and Algorithms, Software Engineering, Computer Systems, Computer Networks, Human-Computer Interaction, Games and Strategies, Discrete Mathematics, Statistics I
- Dean's Award for Academic Excellence (Spring 2023), with Distinction (Spring 2022, Fall 2023, Spring 2024)
- Member of Omicron Delta Epsilon, International Economics Honor Society

Harvard Business School Online *Summer 2023*
CORe Credential of Readiness
- Grade: Pass with Honors (Top 10%)
- 150-hour certificate program on business fundamentals, covering Business Analytics, Economics for Managers, and Financial Accounting
- Developed a strong foundation in analyzing financial statements, business decision-making, and data-driven insights

Finance & Technical Skills

- **Financial & Econometric Analysis:** DCF, Financial Statement Analysis, Capital Budgeting, Market Valuation, Time Series, Regression Models, Hypothesis Testing
- **Programming & Data Tools:** Python (Pandas, NumPy, Matplotlib), Java, C, Ruby on Rails, JavaScript, SQL, HTML/CSS, Stata, Advanced Excel (with Macros)
- **Business Tools:** MS Office Suite, Bloomberg Terminal

Finance Experience

Colgate Investment Group Hamilton, NY
Technology Industry Group Manager *Fall 2023 - Present*
- Lead a team of analysts in evaluating potential investments in the technology sector, producing PowerPoint stock pitches to shape fund strategy while managing 27% of the firm's $40K AUM
- Analyze financial reports, earnings, and key metrics of technology companies, providing qualitative and quantitative investment recommendations, resulting in a 13% ROI for the technology portfolio from 2023 to 2024
- Develop and implement predictive models in Excel, utilizing historical data and market trends to forecast stock performance, assess financial stability, and identify investment opportunities

Economics Tutor Colgate University
Center for Learning, Teaching, and Research *Fall 2023 - Present*
- Guide undergraduate students through complex concepts in economics and finance, focusing on microeconomic and macroeconomic principles, financial markets, and econometric analysis
- Collaborate with faculty to increase student performance in core economics courses by creating customized study guides and leading group study sessions, resulting in an average grade improvement of 15% for tutees

Additional Experience

Cognizant New York, NY
Generative AI Intern *June 2024 - August 2024*
- Developed and fine-tuned generative AI models using HuggingFace and PyTorch for use in finance and other industries, collaborating with cross-functional teams to design machine learning solutions
- Focused on practical applications of AI in fintech, including predictive modeling for stock price trends and sentiment analysis for market data
- Delivered technical documentation and presentations on AI model performance and its implications for financial markets and business strategy

Leadership & Athletics

Varsity Men's Rowing Colgate University
Team Member *Fall 2021 - Present*
- Contribute to a nationally ranked team by maintaining rigorous training and competing in high-stakes regattas
- Hone time management, discipline, and teamwork skills by effectively balancing a demanding athletic schedule with a full academic course load

SAAC Representative *Fall 2022 - Present*
- Serve as the liaison between the varsity rowing team and the athletic department, addressing team concerns and influencing policy changes to enhance the student-athlete experience
- Spearheaded the overhaul of student dining options by collaborating with the athletic department and campus administration, resulting in expanded healthy meal choices and improved dining flexibility for student-athletes