**Daan Manneke**

Address: Albert Cuypstraat 197-3, Amsterdam | Mobile: +31640831981 | Email: daan.manneke@gmail.com LinkedIn: linkedin.com/in/daan-manneke | Github: github.com/dmanneke

**PROFESSIONAL EXPERIENCE**

**Flow Traders Amsterdam, Netherlands** ‣ *Graduate Trading Program, Trading* February - June 2023 • Execute and analyse trades using in-house trading engine while monitoring live market conditions in Bloomberg

• Develop and backtest data-driven algorithmic auto-trading strategies using data lake and Python • Risk management on personal portfolio of complex financial instruments using Excel VBA

**ASML Veldhoven, Netherlands** ‣ *Graduate Thesis Intern, Research & Development* September 2021 – June 2022 • Research on optimising overlay feedback control for ASML’s lithography machines using statistical data analysis (in MatLab), machine learning (using PyTorch) and computational metrology

• Proposed novel predictive controller that is able to automatically adapt to unpredictable system behaviour based on state-of-the-art techniques from the fields of NLP (Transformers) and Computer Vision (GANs) • ASML bought a patent on my network architecture, the poster was selected for the International Technology Conference 2022 and the university graded the thesis with a 9.0/10.0

**Unilever Food Solutions Amsterdam, Netherlands** ‣ *Research Intern, Research Project* January - April 2021 • Performed extensive comparison on clustering techniques using Python packages NumPy, Pandas, SciPy and Keras to best identify trending products using open-source Google search data

• Proposed modification of the Gap Statistic for deriving the optimal number of segments

• Translated technical results to practical business value through building a dashboard design

**Penta Infra Amsterdam, Netherlands** ‣ *Intern Investment Analyst, Private Equity (M&A)* July - October 2020 • Created and updated excel models for financials analysis of the European datacenter market • Prepared presentations for prospective clients, financing parties and advisers

• Support in preparation and negotiation on transaction documentation

**PERSONAL SOFTWARE DEVELOPMENT PROJECTS**

‣ *Source:* Social network that lets users recommend movies to friends

• Programming a server with NodeJS and Express, Client-side logic and state management with React hooks, Server-side logic and data management in JavaScript (ES7) and noSQL, writing CI/CD Tests ‣ *Mail:* Mail client that lets users send and receive emails

• Build own REST APIs, single page application in JavaScript, Django admin

‣ *Commerce:* E-commerce auction site where users post auction listings, place bids, comment and add to watchlist • Data engineering using Django Models that communicate with SQL database through migrations ‣ *Finance:* Web application where users can “buy” and “sell” stocks at the current market price • Version control with GIT, Flask, APIs, CSS Bootstrap, responsive design with HTML, authentication, SQLite

**EDUCATION**

**Erasmus University Rotterdam Rotterdam, Netherlands** ‣ Master of Science in Econometrics and Management Science 2020-2022 • GPA: 8.9/10.0 (Cum Laude distinction)

• Curriculum: Computer Science (9.2), Multivariate Statistics and Data Visualisation (9.8), Micro-econometrics (9.0), Machine Learning (8.3), Topics in Advanced Statistics (9.8), Advanced Marketing Models (8.4), Bayesian Econometrics (8.8)

**University of Melbourne Melbourne, Australia** ‣ Extracurricular Minor as part of Global Exchange Program 2019-2020 • GPA: First Class Honours Division B

• Completed master courses in Game Theory and Discrete Mathematics

**University of Amsterdam Amsterdam, Netherlands** ‣ Bachelor of Science in Econometrics and Operations Research 2016-2019 • GPA: 7.3/10.0

• Thesis covered the effect of the exchange rate return and volatility on the stock market

**Stedelijk Gymnasium Arnhem Arnhem, Netherlands** ‣ Track: Nature and Technology, Nature and Health 2009-2015 • Elected by teachers and students to be a board member of the Arnhemse Gymnasiasten Bond