|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tristan Kleinschmidt  Senior Data Scientist     |  | | --- | | **Contact** |     Address  Singapore, 199597  Phone  659 771 9781  E-mail  kleinschmidt\_tf@yahoo.com.au  LinkedIn  www.linkedin.com/in/tristan-kleinschmidt-97947515     |  | | --- | | **Skills** |     Problem Solving    Excellent  Communication    Excellent  Team Management    Very Good     |  | | --- | | **Software** |     Python, R, Java    AnyLogic, ARENA    Tableau, Spotfire | Senior Data Scientist passionate with 10 years of experience in enabling effective, informed decisions through application of data science. My experience focuses on Industrial Goods applications which are faced with layers of complexity, specifically E2E supply chain and transportation networks. I have 10 years of using modelling, simulation and mathematical optimization to unpack this complexity and deliver value in capital decision making and operational improvement.     |  | | --- | | **Work History** |      |  |  |  |  | | --- | --- | --- | --- | |  | 2019-02 - Current |  | **Senior Data Scientist**  *BCG Gamma, Singapore*   * Re-engineered industrial goods transportation ETA prediction model with gradient-boost regression model, improving regional performance by 5 to 15% * Developed commodity price discovery MIP optimization tool (including UI), producing over $90m value * Delivered Production Scheduling optimization tools for pulp and paper mills, and oil refineries, yielding up to 10% margin improvement * Delivered Optimization, Machine Learning and Simulation components of 2x Advanced Analytics training courses for manufacturing and shipping industry stakeholders |  |  |  |  |  | | --- | --- | --- | --- | |  | 2012-01 - 2019-01 |  | **Principal Consultant**  *The Simulation Group, Brisbane, Queensland*   * Facilitation of Volume Risk Analysis for identifying range of throughput and financial outcomes for rail and port system capital projects; in one instance identifying more value-accretive options worth $400m NPV. * Used discrete-event simulation to determine maintenance strategy requirements to ensure green-fields copper concentrator worth $2bn would achieve production targets. * Verified 5+ engineering designs for projects extending from underground conveying systems, copper concentrators, water supply systems, product bagging plants, and transportation networks. Some projects involved increasing production to world-leading volumes. |  |  |  |  |  | | --- | --- | --- | --- | |  | 2010-01 - 2012-01 |  | **Project Officer - Airports Of The Future**  *Queensland University Of Technology, Brisbane, Australia, QLD*   * Successful proposal to establish Integrated Command and Control Facility for Large-Scale Critical Infrastructure Management, valued at ~$900k * Member of team awarded 2011 Engineers Australia QLD Division Engineering Excellence Award for Research & Development * Publication of 3 peer-reviewed journal articles & 5 international conference papers in airport passenger simulation, passenger experience, flexible airport design and multi-disciplinary approaches to improving complex socio-technical systems. |      |  | | --- | | **Education** |      |  |  |  |  | | --- | --- | --- | --- | |  | 2006-01 - 2010-03 |  | **Ph.D.: Electrical Engineering**  *Queensland University Of Technology -* Brisbane, Australia |  |  |  |  |  | | --- | --- | --- | --- | |  | 2005-02 - 2006-01 |  | **Master of Engineering Science: Computer & Communications Engineering**  *Queensland University Of Technology -* Brisbane, Australia |  |  |  |  |  | | --- | --- | --- | --- | |  | 2002-02 - 2005-01 |  | **Bachelor of Engineering: Electrical & Computer Engineering**  *Queensland University Of Technology -* Brisbane, Australia |      |  | | --- | | **Interests** |     Industrial Goods     |  | | --- | | **Hobbies** |      * Running * Volunteering at parkrun * Travel * Photography |

.