

Max Milarvie

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Portfolio: <https://github.com/maxmilarvie/Max-Milarvie-Portfolio>

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EDUCATION

- Boise State University** Boise, Idaho, USA
 - Masters of Engineering - Materials Science & Engineering; GPA: 3.7* *August 2021 - Present*
 - Courses: Phase Transformations & Kinetics, Magnetic Materials for Sustainable Technologies, Machine Learning, Thermodynamics*
 - NCAA Division 1 Athlete for both Track & Field and Cross Country*
- The University of Edinburgh** Edinburgh, Scotland
 - Bachelor of Engineering - Chemical Engineering; First Class with Honours* *September 2017 - June 2021*
 - Courses: Thermodynamics, Chemical Reaction Engineering, Process Design, Fluid Mechanics, Separation Processes*

SKILLS SUMMARY

- Software:** UniSim, MATLAB, Aspen, Python, AutoCAD
- Experience:** Laboratory Practices, Technical Writing
- Soft Skills:** Leadership, Event Management, Writing, Public Speaking, Time Management

EXPERIENCE

- Shopp'r** Remote
 - Research Intern (Part-time, Contractual)* *October 2021 - January 2022*
 - Basic Data Collection & Data Cryptocurrency:** Extensive research to evaluate feasibility of company vision
 - Data-integrated Reward Schemes:** Analysis of the value of market basket data for a leading global rewards scheme
 - Feedback to Founder:** All work directly fed into company direction and informed critical decisions in the early, developmental stages of Shopp'r
- Maximise Sport Ltd.** Glasgow, Scotland
 - Summer Staff (Part-time)* *January 2014 - June 2019*
 - Event Management:** Assisted in the development and delivery of large scale sporting events
 - Events included:** Successful presentation and delivery of Scottish Football League Cup Final (2016) and numerous large scale, mass participation cycling events, ensuring event processes and methodologies were adhered to
- Western Lawn Tennis Club** Glasgow, Scotland
 - Tennis Coach (Part-time)* *January 2012 - August 2018*
 - Lesson Delivery:** Organised structured tennis lessons for juniors, balancing technical development with fun
 - Operation of a sports club:** Logistics, interaction with parents, organisation of tournaments and effective communication with all ages leading to worthwhile operation of weekly lessons and holiday camps

PROJECTS

- Design of a Fluidised Bed Reactor (FBR):** Utilised the Kunii-Levenspiel method to perform a shortcut design of a FBR for polysilicon purification optimising reactor kinetics by both temperature and fluidisation regime. Provided an opportunity to further understanding of various fundamental principles including mass transfer and fluid dynamics in an applied manner for a technical report (April '21)
- Analysis of water demand and heat emission in Scottish Whisky Distilleries:** Qualitatively estimated usage and availability of ultra low grade waste heat and summaries of the industrial sector of malt whisky production. Provided critical analysis of novel methods for utilisation of waste heat. Developed solid understanding of a significant national export by efficient use of scarcely available 'trade secrets' and efficient analysis of limited data (February '21)
Furthered by analysis of the thermodynamics of the distillation process, with specific focus on malt whisky (December '21)

HONOURS AND AWARDS

- Nominee (1 of 3) for Edinburgh University Male Athlete of the Year - 2021
- Academic All-Conference Honours in the Mountain West Conference - Fall 2021
- Jordanhill School Dux - June, 2016

OTHER

- International cross country and track athlete competing across the world
- British U23 10,000m Champion with personal best of 29 minutes, 22 seconds - June 2021
- Great Scottish Run 10k Champion - September 2019

VOLUNTEER EXPERIENCE

- Atkins Global** Glasgow, Scotland
 - Shadowed engineers looking at safety, reliability and process efficiency in Oil & Gas* *August 2016*
- Western Lawn Tennis Club** Glasgow, Scotland
 - Developed my coaching experience, learning about preparation & delivery of a tennis lesson.* *Jan 2012 - Jan 2013*