

# Max Milarvie

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## EDUCATION

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- 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

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

## EXPERIENCE

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- Shoppr** 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
- Maximise Sport Ltd.** Glasgow, Scotland  
*Summer Staff (Part-time)* *January 2014 - June 2019*
  - Event Management:** Assisted and learned about complex, large scale sporting event delivery
  - Events included:** Scottish League Cup Final, numerous large scale cycling events
- Western Lawn Tennis Club** Glasgow, Scotland  
*Tennis Coach (Part-time)* *January 2012 - August 2018*
  - Lesson Delivery:** Organised and professional tennis lessons for juniors, balancing technical development with fun
  - Operation of a sports club:** Logistics, interaction with parents, organisation of tournaments, effective communication with all ages

## PROJECTS

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- Design of a Fluidised Bed Reactor (FBR) for polysilicon production:** 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 (April '21)
- Analysis of water demand and heat emission in Scottish Whiskey Distilleries:** Usage and availability of ultra low grade waste heat, critical analysis of novel methods for utilisation, and qualitative estimate of the summaries of the industrial sector of malt whisky production (February '21)  
Furthered by analysis of the thermodynamics of the distillation process, with specific focus on Scotch Whiskey (December '21)

## HONOURS AND AWARDS

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- Nominee (1 of 3) for Edinburgh University Male Athlete of the Year - 2021
- Jordanhill School Dux - June, 2016

## OTHER

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- 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

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- 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*