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| **GLEN SVENNINGSEN, MS, PhD**  **Chemical Engineer**  **& Data Scientist** | Phone: 847.666.7618 Email: [glen.svenningsen@northwestern.edu](mailto:glen.svenningsen@northwestern.edu)  LinkedIn: <https://www.linkedin.com/in/gsven-1988/>  GitHub: https://github.com/glensven |

**PERSONAL STATMENT**

Engineer with strong research background focused on applying an in-depth understanding of chemical engineering, risk assessment, programming, machine learning algorithms, and blockchain technology into providing detailed analysis and modeling for cost-effective solutions.

# **SKILLS**

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| Python  SQL  PyViz  Machine Learning  Database Management  Statistics  Data Modeling |
| Risk Assessment  Techno-Economic Analysis  Safety  Process Design  Research Development |

# **CERTIFICATIONS**

Fundamental Engineer: Chemical

Fintech Professional

HAZWOPER

DOT/IATA

**PROFFESSIONAL EXPERIENCE**

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| NORTHWESTERN UNIVERSITY | 2018-Present |

# **Safety Engineer**

* Provided data-driven risk assessments for safety procedures, work processes, and improved design.
* Mitigated risk of 100+ research labs via timely analysis of experimental proposals and active setups.
* Assisted project managers in the design of research labs or renovations to ensure high research standards.
* Acted as a subject matter expert for safety, health, and environment for 80+ professors and 1000+ researchers.

EDUCATION

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| NORTHWESTERN UNIVERSITY | 2020-Present |

**Fintech Bootcamp**

* Forecasted futures cryptocurrency prices and returns based on historical data
* Modeled future financial performance of multiple companies
* Built Ethereum blockchains and validated transactions are on a distributed ledger
* Compiled Covid databases to illustrate epidemic outcomes and impact of public health measures

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| UNIVERSITY OF CALIFORNIA, RIVERSIDE | 2013-2018 |

**PhD in Chemical & Environmental Engineering**

* Converted sugars into desirable platform chemicals based on USDA grant.
* Determined design factors that control production of platform chemicals to develop higher yielding systems.
* Designed and operated high-throughput reactors to accelerate experimental testing by a factor of 96.
* Performed techno-economic analysis to pin-pin-point and reduce production costs, lowering the minimum selling price of high-octane furans by 45% compared to previous reports.
* Developed novel functionalized silica catalysts increasing selectivity to desired products by 33%.
* Instructed high-level chemical courses: Fluid Dynamics, Heat Transfer, Chemical Process Control.

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| NORTHERN ILLINOIS UNIVERSITY | 2010 – 2013 |

# **Masters in Chemistry & Biochemistry**

# Systematized novel production methods of graphene nano-sheets at a tenth the cost of the traditional methods.

* Taught the following courses: Chemistry Laboratory, General Chemistry, and Physical Chemistry.

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| UNIVERSITY OF ILLINOIS**,** CHAMPAIGN-URBANA | 2006 – 2010 |

**Bachelors of Science in Material Science Engineering**