

# Joss Duff

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## Education

Lehigh University – B.S. in Computer Science and Business  
Bethlehem, PA

September 2019 – May 2023

GPA: 3.48

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## Experience

Nano Human Initiative (NHI), Lehigh University  
Bethlehem, PA

January 2020 – September 2020

- Small undergraduate team lead by Lehigh's Dr. Brian Chen to create a graphic user interface for remote control and viewing of electron microscopes.
- Team leader of four assigned with the task of implementing a custom Python library developed by the manufacturer of Lehigh's electron microscope into our existing website.
- Frontend polishing and light server maintenance.
- Paid internship over the summer (40 hours/week). Non-paid internship during the academic year (10 hours/week).

Tiel Incorporated  
Providence, RI

May 2020 – September 2020

- Full stack developer for a small startup creating solutions for game developers to seamlessly interface in-game items with the Ethereum blockchain.
- Utilized modern best practices to construct highly-scalable API solutions on AWS using the Serverless framework and DynamoDB.
- Learned about and interfaced with the Ethereum blockchain as a long-term persistence layer for applications.
- Communicated with and worked as a part of a broader engineering team using a full PR-based monorepo workflow to continuously deploy our solution.

University of Iceland  
Reykjavik, Iceland

October 2020 – December 2020

- Worked with Professor Hafsteinn Einarsson at the University of Iceland on his NLP model.
  - Learned about various NLP structures including CNN, RNN, S2S, and Bert model transformers and how to implement them using PyTorch.
  - Fine tuned Bert NER model used to identify "tech" words startups used to describe themselves.
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## Projects

Independent Photo Upload Project  
Rumford, RI

April 2020 – September 2020

- Full stack developer on a mentored project to create a web app using React and Express. Currently building out the API.
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## Skills

C, JavaScript, React, Express, Java, Python, Git, HTML, PyTorch, MySQL, Amazon Web Services (AWS) Serverless, Slack