

# Jack Denson

Boston, MA | [denson.ja@northeastern.edu](mailto:denson.ja@northeastern.edu) | [www.linkedin.com/in/jack-denson](https://www.linkedin.com/in/jack-denson) | <https://www.jdenson.com>

---

## EDUCATION

**Northeastern University**, Boston, MA

Aug 2019 - Expected May 2023

- Khoury College of Computer Science, Honors
  - Candidate for a Bachelor of Science in Computer Science
  - Overall GPA 3.97/4.0, relevant course GPA 4.0/4.0, Dean's List
  - Relevant Courses: Algorithms & Data Structures, Computer Systems, Software Development, Artificial Intelligence, Machine Learning & Data Mining, Object-Oriented Design, Mathematics of Data Structures, Noninteractive Rendering Techniques, Foundations of Data Science, Foundations of Cybersecurity
- 

## TECHNICAL KNOWLEDGE

**Languages:** JavaScript, Python, Java, SQL, Bash, Groovy, R, HTML, CSS

**Technologies/Frameworks:** Git, Vue.js, Node.js, React.js, Docker, MongoDB, PostgreSQL, Jenkins, ElasticSearch, HTTP, TCP, UDP, SNMP, Express.js, Hapi.js, NumPy, Pandas, TensorFlow, JUnit, Socket.io

**Cloud Services:** AWS EC2, AWS S3, AWS Batch, AWS Cloudwatch, AWS ECR, AWS RDS, AWS Redshift, AWS IAM, AWS ElasticSearch, AWS Lambda, Heroku

**Applications:** Jira, Atom, Jupyter Notebooks, Git Bash, Spyder, Eclipse, IntelliJ, Adobe Photoshop, Microsoft Office

**Systems:** Linux, Windows, MacOS

---

## EXPERIENCE

**Starry, Inc.**, Boston, MA

January 2022 - October 2022

*Full-Time Cloud OSS Software Engineer Co-op, Part-Time Cloud OSS Software Engineer*

- Engineered and improved upon dozens of networking-focused services, prioritizing monitoring and observability of Starry's network infrastructure
- Built upon in-house data sharding protocols to enable scalability without sacrificing ease of data access
- Communicated effectively with a team of engineers, providing relevant & helpful code review and working through challenging problems collaboratively

**FogPharma**, Cambridge, MA

January 2021 - July 2021

*Data Engineering Co-op*

- Developed and shipped data analysis pipeline, shifting all internal computation from an on-premises server to the cloud while emphasizing scalability, speed, and modularity
  - Implemented and executed ETL scripts to normalize complex, heterogeneous Excel data into a scalable, organized, and optimized SQL database with tens of millions of rows
  - Designed and implemented full-stack data search application, allowing scientists to search, filter, browse, visualize, and interact with company data previously only available via thousands of Excel sheets
- 

## PERSONAL PROJECTS

### Expense-Tracking Web Application

- Built MongoDB-backed REST application(Express.js, Node.js) to manage my personal expenses, including visualizing them on a front-end application
- Deployed application(Heroku) to add expense data and view visualizations via my cell phone and other devices
- Integrated JWT authentication and authorization to protect data and scale to multiple users

### Machine Learning Photo Watermarker

- Built steganographic "watermark" tool using machine learning, subtly altering photos by adding a robust and invisible watermark
- Leveraged Python(Tensorflow, Flask), and Javascript(React) to build the tool

### Personal Website

- Designed and built personal website using React.js and Material UI
  - Deployed on AWS Amplify, enabling continuous deployment via a Git repository
- 

## SKILLS/INTERESTS

- Interests: movies, cooking, staying active, machine learning, web development, and learning new skills
- Skills: productive, friendly, collaborative, goal-oriented, and hardworking