

# Jack Denson

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

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## 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 3.93/4.0, relevant course GPA 4.0/4.0
  - Relevant Courses: Algorithms & Data Structures, Object-Oriented Design, Mathematics of Data Structures, Foundations of Data Science, Foundations of Cybersecurity, Linear Algebra, Mathematical Reasoning, Fundamentals of Computer Science(I and II)
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## TECHNICAL KNOWLEDGE

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

**Technologies/Frameworks:** Git, Vue.js, Node.js, React.js, Docker, Jenkins, Elasticsearch, PostgreSQL, Express.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

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

**Systems:** Linux, Windows

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## EXPERIENCE

**FogPharma**, Cambridge, MA

January 2021 - July 2021

*Data Engineering Co-op*

- Developed and shipped data analysis pipeline, shifting all internal computation 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

**Muffin House Cafe**, Mendon, MA

April 2018 - Present

*Barista*

- Interfaced with 75 - 100 customers daily, taking orders and making coffee to ensure customer satisfaction through friendly interactions
- Trained 5 - 10 new employees to ensure success in the workplace

**Computer Science Gents**, Marlborough, MA

February 2018 - April 2019

*Mentor*

- Offered personalized teaching to twenty 11-13 year old students, introducing software development principles to build an Android application of their design
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## PERSONAL PROJECTS

**Machine Learning Photo Watermarker**

July - September 2020

- Built steganographic "watermark" tool using machine learning, subtly altering photos by adding a robust and invisible watermark
- Designed front-end site and integrated a back-end API to alter photos
- Utilized Python(Tensorflow, Flask), and Javascript(React) to build the tool

**Image to PDF REST API**

December 2020

- Built API(Node.js, Express.js) to dynamically convert jpg images to a single, multipage pdf
- Plan on integrating with the Twilio API, to enable seamless pdf creation from my cell phone

**Personal Website**

January 2021

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

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