

Jack Denson

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

Systems: Linux, Windows

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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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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SKILLS/INTERESTS

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