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## Abbi Devins, M.D.

**Objective:** Full stack software engineer with a wide array of experience ranging from data science, AI/ML to medicine and geosciences, seeking a position in software engineering, data science and/or AI/ML.

### Education

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**Johns Hopkins University** - *Masters in Artificial Intelligence* July 2023 - Present

**Coursera: University of Washington** – *Certificate course in Computational Neuroscience* November - January 2021

**Oregon State University** – *Post-baccalaureate in Computer Science, B.S.*  
GPA: 3.95 June 2018 – June 2020

**Udacity** – *Front End Web Developer Nanodegree* October 2018  
*Google Udacity Front-End Challenge Scholarship* April 2018

**University of Vermont College of Medicine** – *Doctor of Medicine, M.D.* May 2018

**Bowdoin College** – *cum laude in Neuroscience, B.A.* May 2012

### Work Experience

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**Squared School Academy of Mathematics**- Providence, RI September 2024 - Present  
*Mathematics Teacher: part-time role (online, virtual position)*

- Teach math to grade-school students in an after-school program in the evenings

**Sabbatical for Professional development** October 2023 - September 2024  
*Master's student in Artificial Intelligence*

- Sabbatical to complete my Master's degree in Artificial Intelligence at Johns Hopkins University
- Background courses completed: Linear Algebra, Multivariable calculus
- Completed ML/AI courses: Algorithms for Data Science, Applied Machine Learning, Creating AI-Enabled Systems
- Utilize Docker, NumPy, Pandas, PyTorch, SciPy, Tensorflow, OpenCV, Pyarrow, Keras, Jupyter notebook, GitHub, Matplotlib, Seaborn and Conda in development as well as both CPU and GPU support for running PyTorch and Tensorflow

**Record360** - Seattle, WA October 2021 - October 2023  
*Full stack software engineer*

- Helped maintain a Ruby on Rails backend server code base including a REST API. Addressed any bugs and added features. Validated any code changes by writing unit and integration tests with RSpec
- Worked with ActiveRecord to run SQL queries
- Also worked with TypeScript and React in a NextJS application configured with a GraphQL API to address bugs and modify the application's features

- Utilized Docker, GitHub Actions, command-line bash and zsh shell, Kubernetes as well as Amazon AWS S3, CloudFront and EC2 in the development process

**MedRhythms** - Portland, ME

June 2021 – September 2021

*Software Engineer*

- Used Django and Python to build data management features and endpoints to support an Android mobile application
- Utilized TypeScript in mobile application

**Garmin International** – Yarmouth, ME (Headquarters: Olathe, KS)

June 2020 – June 2021

*Software Engineer 1*

- Used C# and SQL to address bugs, and modify application configuration within our billing service
- Worked with the Technical Lead on my team to help improve automation of developer process using PowerShell scripts, Chocolatey and Docker
- On-call once a quarter 24/7
- Worked on initial integration with our new payment processing vendor. Developed integration tests to validate.

*Software Engineering Intern*

January 2020 – May 2020

- Worked on bugfix tickets and briefly on a feature
- Utilized Jira, TeamCity, Bitbucket, Atlassian Stash, SourceTree, Octopus and Visual Studio while working

**National Center for Atmospheric Research** – Boulder, CO

May 2019 – August 2019

*Software Engineering Intern, Earth Observing Laboratory*

- Developed an interactive leaflet JS based heatmap that visualized large NetCDF files containing radar data within a Ruby on Rails application
- Created a requirements and specifications document relevant to creating an application to visualize radar data on a map
- Utilized Python Py-ART libraries and PostgreSQL to process incoming real-time NetCDF (radar) data
- Attended professional development workshops including leadership, team building and diversity training
- Attended and participated in an IS-GEO conference (Intelligent Systems for the Geo Sciences) with field trips to Spark Fun to build Arduino, Particle.io and Raspberry Pi based prototypes to solve geoscience problems.
- Helped improve documentation and started integration process of above visualization project with the overall CHORDS (Cloud-Hosted Real-Time Data Services) project [<https://github.com/earthcube/projects-chords>]

**University of Vermont Medical Center** – Burlington, VT

April 2018 – June 2019

*Web Development Contractor*

- Helped develop a HTML5, CSS and JS based website of a clinical psychiatry interactive multimedia slideshow for use by medical students to learn clinical psychiatry skills
- Used research from senior year of medical school, on user experience and learning outcomes, to guide development of content and interactive elements.

## Technical Skills

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*Languages:* Python, JavaScript, Ruby, C++, HTML5, CSS3.

*Frameworks and Libraries:* Django, ASP.NET, React.js, Bootstrap, Express.js, Ruby on Rails, Py-ART.

*Other:* Linux, Git and GitHub, MSSQL, PostgreSQL, Docker, Adobe Photoshop, IntelliJ, Responsive CSS [Flexbox, Media Queries], Jupyter, AWS, NumPy, PyTorch, Pandas, Scikit learn.

## Project Experience

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**Capstone Project for Oregon State University** [[https://github.com/abisuresh/Sensational\\_Science](https://github.com/abisuresh/Sensational_Science)]

May 2020

- Group project that sought to create an application for teachers to use to develop and distribute science projects
- Utilized Google Flutter framework and Firebase
- Cross-platform functionality (iOS, Android, web)

**Portfolio Website** - <https://abbidevinssuresh.com/>

May 2019

- Responsive, single-page application built with HTML5, CSS3 and JS (Express JS and Handlebars JS)
- Utilizes Flex-box CSS and media queries to attain responsiveness
- Built a contact form

**Responsive Website** – <https://wedding.devinssuresh.com/>

November 2017

- Created wedding website utilizing HTML5, CSS3 and JS (with jQuery)
- Developed an end-product that was mobile, tablet and desktop responsive

## Research Projects & Presentations

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- Presentation of research at the National Corporation of Atmospheric Research [2019]
  - Devins-Suresh, A., et al. Exploration of different techniques to map and visualize radar image data in the geosciences using CHORDS (Cloud Hosted Real-time Data Services). 2019.
- Clinical Research at University of Vermont College of Medicine [2016]
  - Tackling Obesity in Rural Vermont- <https://scholarworks.uvm.edu/fmclerk/205/>
- Honors Thesis in Neuroscience at Bowdoin College [2012]
  - The Identification of the Pyrokinin-Family Neuropeptides in *Homarus americanus*: An Immunohistochemically Guided Approach (Advisor: P. Dickinson)