

# Nathan Patnam ( U.S. Citizen )

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## Experience

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**Salesforce** Full-Stack Intern Developer on Heroku's Dashboards team May 2019 - Present

- Learning Ember, GraphQL, Purple3 (CSS library), Heroku, Mirage, and QUnit to [build a web-service to triage issues across all of Heroku's 3400+ open source & private GitHub repositories](#) into Salesforce's Grand Unified System (GUS).
- Tool is expected to help save software engineering managers' and executives' time by giving clear visibility of ongoing development work. Will be piloted internally at Heroku in hopes of being adopted and used by all of Salesforce.

**Wyzant** Programming Tutor March 2018 - Ongoing

- [Tutor 23 people online for 85 total hours](#). Covered topics such as TDD, APIs, OOP, SOLID principles, and unit testing.
- Profile can be viewed at <https://www.wyzant.com/Tutors/TutoringByNathan8>.

**Honda R&D Americas** Full-Stack Mobile Developer Intern Sep. 2018 - Dec 2018

- Learned React Native, Redux, AWS Lambda, and Firebase to create Android and iOS apps to prototype new driving experiences to save our customers time and/or money.
- Increase app's scalability and security by using Firebase's token authentication and Realtime Database.

**Microsoft** Data Science Intern on Content Experiences R&D May 2018 - Sep. 2018

- Learned an internal query language called SCOPE to [parse through 100's of petabytes of daily telemetry data](#) to identify trends in user interaction with the Windows settings app on Microsoft's Big Data System called COSMOS.
- Learned Power BI to visualize queried results to find trends and patterns in usage-based off of demographic factors.
- From trends, used AzureML to mine association-rules to infer what setting a user wants to change from past behavior.
- Created a C# application utilizing the association-rule based ML model to recommend to users, settings to change based off of prior user activity, and uses Cortana Show Me to provide a tutorial about the recommended setting.

**UnitedHealth Group** Web Developer Intern Jun. 2017 - Aug. 2017

- Redesigned the intern hiring process for software engineering managers by creating a web service that saves ~ **350 hours of manager time (est. \$13,000 annually)** for the Schaumburg, Ill. office.
- Led an Agile team of 5 interns to create 4 SharePoint pages using JS/HTML/CSS/Bootstrap, SPServices, and REST.

## Outside Of Work

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### Python Travis Pipeline

- Python-based testing platform built using Git, Coveralls, PyTest, and Travis CI that will run unit tests, acceptance tests, code coverage and doc tests on every commit. Will be used as my testing platform to build future projects on top of.

### Java Argument Parser

- Java package that parses arguments from the command line. Created during Wofford's Computer Science Capstone Class with three other people. Used Java, Jenkins, Gradle, JUnit, Robot Framework, and Coveralls.

### NeedleXchange

- Web service to organize and publicize needle exchanges with a focus on anonymity. Used JavaScript, SQLite, Google Maps API, Python, and Flask. [Won Deloitte's prize at HopHacks Fall '17 for best user experience.](#)

## Education

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**Wofford College - B.A. Computer Science**

Spartanburg, SC

Cumulative GPA: 3.70 / 4.0

Computer Science GPA: 3.90 / 4.0

Graduation: Dec 2019

- Increased savings in my organization's checking account by 5% (\$1000) over my one-year term ('16) as treasurer.

## Skills

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**Languages/Libraries** Python · Java · JavaScript · jQuery · MySQL · Pandas & NumPy · GraphQL

**Tools** AWS · Firebase · Jenkins · Travis CI · Git · QUnit · Mirage · Heroku · Webpack

**Frameworks** Django · React Native · Ember · HTML · CSS · Handelbars · Bootstrap · Apollo