

# Nathan Patnam

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## Experience

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### Honda Americas R&D

Software Engineer Intern - Connected Technologies & Services Team

Raymond, OH

Sep. 2018 - Dec 2018

- Built React Native apps with AWS Lambda, Firebase, and Azuga API to prototype new driving experiences.
- Designed, developed and deployed AWS CI & CD platform using Docker to publish a new version of the iOS and Android native-code build on every commit. Utilized Redux and Redux-Persist to maintain state on device.
- Increase app's scalability and security by using Firebase's token authentication and NoSQL cloud database.

### Microsoft

Software Engineer Intern - Content Experiences R&D Team

Redmond, WA

May. 2018 - Sep. 2018

- Initiated an investigation, and identified trends in user interaction with the Windows settings application. From trends, trained a ML model to mine association rules from settings usage big data in COSMOS using SCOPE.
- From ML results and association rules, created a C# application 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

Software Engineer Intern - Software Development and Support Services Team

Schaumburg, IL

Jun. 2017 - Aug. 2017

- Streamlined and redesigned the intern hiring process with a SharePoint web service. Service saves ~ 350 hours of manager time (est. \$13,000 annually) for the Schaumburg, Ill. office, and ready for deployment at all other offices.
- Led an Agile team of 5 interns to create 4 SharePoint pages using Front-end languages, SPServices, and REST.

## Outside Of Work

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### 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.](#)

### Detect Fake News

- Web app built during Microsoft's hackathon to identify claims from videos/audio files and provide more context.

### Java Argument Parser

- Architected open source Java package that parses arguments from the command-line. Built with Java and Jenkins

### Programing Tutor, Wyzant, [View profile](#)

- [Tutor and mentor 23 people online for 70 total hours.](#) Covered topics such as the process of TDD, using APIs, OOP, SOLID principles, unit vs. acceptance testing, design patterns, algorithms and data structures.

### Programing Tutor, Wofford College

- Tutor students on topics such as namespaces, classes, recursion, debugging code in Python on an on-going basis.

## Education

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

Cumulative GPA: 3.65 / 4.0

Computer Science GPA: 3.87 / 4.0

Spartanburg, SC

Graduation: Jan 2020

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

## Tech Skills

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### Programming

Python · Java · JavaScript · C# · SQL · Power BI

### Tools

AWS · Firebase · Jenkins · Git · Robot Framework · JUnit · JaCoCo · Gradle

### Web/Mobile

Django · React Native/React · HTML/CSS/Bootstrap · Redux · .NET · Spring