

# ISHWAR AGARWAL

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## WORK EXPERIENCE

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**Technology Associate (Full-Stack Software Engineer)** | Goldman Sachs | New York, NY

July 2018 – Present

- **Marquee Connect**

*Spearhead design and end-to-end development of an externally-facing networking-application for Institutional Investors to connect with Hedge Funds and Fund Managers to raise capital previously done manually over CRM, spreadsheet and email facilitated by a 30+ member team globally. The product saw 150% growth in connections through the platform in Q4 2020.*

- Developed an approval workflow microservice with Dropwizard and MongoDB for data management of the product also being utilized by 5 other business functions.
- Developed front-end application with React and Typescript using and contributing back to internal [UX library toolkit](#)
- Automate data synchronization between CRM and REST services reducing 5+ business and support hours/week
- Contribute to various microservices including fund performance metrics calculation engine built on Vert.x
- Collaborate on a scrum-based agile method with a team of VPs, Junior & Senior Analysts, UX Designers and QA Testers by designing system architecture, creating delivery estimates, implementing features, conducting code reviews, and supporting external client queries

- **Marquee Prime Analytics and Monitoring**

- Instrumented application availability and latency metrics via *Prometheus*, built visualizations in *Grafana*, wired alerting via *PagerDuty* and reported application SLO to firmwide SRE
- Instrumented application-client engagement metrics across multiple businesses and product streams using *Hadoop*, *Presto*, *Airflow* and *Apache Superset* to create materialized datasets/visualizations for stakeholders

**Summer Technology Analyst** | Goldman Sachs | New York, NY

May 2017 – August 2017

- Developed features on a AngularJS application to aid investment bankers manage deal information more efficiently
- Enhanced RESTful Microservice APIs to provide clients with concise information using *Spring Boot*
- Presented Financial Cross-Asset ID Mapping Tool for an Investment Banking Hackathon and received second place

**Software Developer** | Berea College | Berea, KY

August 2015 – May 2018

- Designed and developed 3 web applications used by 1600+ students and 300+ faculty and staff within a team of 8
- Made administrative workflow more efficient by saving administrator, faculty, and staff 200+ hours per term
- Maintained systems and supported applications resolving 3+ issues based on client feedback
- Created automated VM provisioning infrastructure for 100+ CS students with backup, upgrades and maintenance using *Ansible*, *KVM* and *Bash scripts*

**Co-Lead Teaching Assistant** | Berea College | Berea, KY

August 2016 - May 2017

- Managed a team of 18 Teaching Assistants and organize weekly departmental meetings
- Assisted faculty in managing Data Structures course and tutor 53+ students in the weekly CS labs

**Software Developer Intern** | Interapt | Louisville, KY

May 2016 – July 2016

- Built the front-end of a single-page web application to handle employee information more securely using *Angular 2* framework by creating user access control, and reducing human errors
- Facilitated a team of 5 designers and developers for making software design decisions using agile methodology

## TECHNICAL SKILLS

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- **Languages:** Java, JavaScript, TypeScript, Python, C/C++, HTML, CSS
- **Frameworks:** Dropwizard, Vert.x Java, React, Redux, Angular, Flask
- **Platforms/Tools :** Node.js, Kubernetes, Windows, Linux, Webpack, Git, CVS
- **Databases:** MongoDB, Elasticsearch, SQL based databases

## EDUCATION

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**B.A. in Computer and Information Science; B.A in Mathematics** | Berea College | Berea, KY

May 2018

- **GPA** 3.85, Computer Science Major GPA: 3.92 , Mathematics Major GPA: 4.00
- **Ballard-McConnell-Willis Mathematics Scholarship**. Awarded \$10,000 worth scholarship for excellence in Mathematics, out of 300 students in the junior class
- **Phi Kappa Phi** (2016), **Pi Mu Epsilon** (2015), **Epsilon Pi Tau** (2015), **Dean's List** Recipient (Fall 2014 - Spring 2018)

## PROJECTS

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- **HelloBanking (2017)**. An Amazon Alexa application to manage (transact, check balance) bank account that won First place at CatHacks3 Hackathon [ *Amazon Alexa, AWS Lambda, Python(Flask)* ]
- **SnapCal (2017)**. A web/mobile app that detects the amount calories in food from its image that won first place at DerbyHacks2 Hackathon [ *Tensor Flow (Image Recognition), Python(Flask), Angular 2, Nutirionix API* ]
- **Elementary (2016)**. An IBM Watson powered virtual teaching assistant application that answers students' questions related to programming. Won IBM award at HackNC among 650+ students. [ *IBM-Watson API, Python(Flask), Jinja2* ]
- **Campus Tour Guide (2015)**. A campus tour generator application that generates the shortest Hamiltonian path given a set of Google Maps building coordinates using the Branch and Bound Algorithm. [ *Python, Graph Theory* ]
- **AI Flappy Bird (2016)**. Trained a Neural Net to play the Flappy bird game using a reinforcement learning algorithm (MDP). [ *C++, Python, Neural Network* ]
- **OctoPrint** (Open Source Contribution). Resolved two issues for a web-based host for 3D RepRap printers [Python]

## COMMUNITY ENGAGEMENT

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**Berea Innovation Studio** | Studio Manager

August 2016 – May 2018

- Led a team of 20 students to work collaboratively to host and facilitate workshops and pop-up classes related to idea generation and design thinking

**University Innovation Fellowship** | Epicenter, NSF, Stanford University and VentureWell

February 2016 – May 2018

- One of 607 fellows nationwide helping college students develop an entrepreneurial mindset and creative confidence by organizing workshops to teach Design Thinking, Prototyping etc.

**Entrepreneurship for the Public Good** | Berea College

May 2015 – May 2018

- Collaborated with local activists, civic leaders and the Tourism Commission to achieve the city of Berea Trail Town Certification by assessing the feasibility of advancing adventure tourism
- Conducted workshop of 20+ students teaching them the Business Model Canvas and the Lean Startup Process