

# JAMES HE

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## OBJECTIVE

Motivated, versatile, and aspiring student eager to learn and help propel the field of computer science.

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## EDUCATION

### NORTHWESTERN UNIVERSITY

*Bachelor of Science in Computer Science and Applied Mathematics*

Overall GPA: 3.59/4.0  
September 2014 – Present  
Expected Grad Date: June 2018

- Focus: Theoretical Computer Science, Artificial Intelligence, Computer Systems
- Notable courses: Design & Analysis of Algorithms, Computational Theory, Discrete Mathematics, Intro to Artificial Intelligence, Machine Learning, Databases, Computational Geometry, Game Design, Operating Systems, Data Structures

#### *Minor in History*

- Concentration: Europe

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## WORK EXPERIENCE

### NORTHWESTERN UNIVERSITY

*Peer Mentor (Undergraduate Teaching Assistant)*

Evanston, Illinois  
Jan 04 - March 31, 2016, September 20 – Present

- Assisted Professors Ming-Yang Kao and Anindya De in Discrete Mathematics and Computational Theory respectively.
- Conducted office hours and reiterated/taught material students were struggling with.
- Encouraged discussion and facilitated communication between students to foster understanding.
- Effectively coordinated with other teaching assistants and collaboratively graded homework and exams.

### DISCOVER FINANCIAL SERVICES

*Business Technology Intern on Internet Card Acquisitions*

Riverwoods, Illinois  
June 13 – September 9, 2016

- Created an assets field in Discover Card's account center as part of the Ability to Pay Project, helping Discover more successfully assess credit lending risk.
- Developed the back-end Java code needed to store the newly created asset field's information for both desktop and mobile web browsers, including work on the mobile API.
- Refactored the Internet Acquisitions team's codebase, increasing overall test coverage by 11% and eliminated over 11 days of technical debt.
- Extensively utilized a multitude of software tools including Git, Clearcase, Jenkins, SonarQube, Sonatype Nexus, Gradle, Rally, Java Spring framework, Freemarker, and JavaScript.
- Cooperated as part of the Agile management system with my team, actively participating in daily standups, team problem solving, user story grooming, and marked achievement towards weekly sprint goals.

### MARLAN, CO.

*Developer on Technology & Development Team*

Evanston, Illinois  
Jun 15 – Dec 31, 2015

- Efficiently collaborated in a small team environment to plan out and manage each week's workload.
- Co-designed and later developed the Marlan landing page with teammates, improving HTML/CSS/JavaScript skills.
- Successfully implemented back-end development to the Marlan website through Ruby on Rails.
- Researched and worked on mobile app wireframing and prototyping in coordination with the Communications team.

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## ACTIVITIES

**NORTHWESTERN PEER MENTOR:** Worked for Professors Ming-Yang Kao and Anindya De in theoretical computer science

**INTRAMURAL FOOTBALL:** Played for Ayers CCI in the residential college league

**HACKATHONS/HACKERRANK COMPETITIONS:** Participated in NU WildHacks hackathons and smaller competitions.

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## TECHNICAL SKILLS

- **Programming:** Java, C/C++, C#, Python, Ruby, Lisp, SQL
- **Web Development:** HTML/CSS, Freemarker, JavaScript, jQuery, Ruby on Rails, AngularJs
- **Software Tools:** MATLAB, Mathematica/Maple, Git, Jenkins, SonarQube, TeamSite, Rally, Sonatype Nexus, Gradle, Clearcase
- **Operating Systems:** Microsoft Windows 10/8/7/Vista/XP/98, Unix, Linux (Red Hat, Ubuntu)