

JAMES HE

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OBJECTIVE

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

EDUCATION

NORTHWESTERN UNIVERSITY

Bachelor of Science in Computer Science and Applied Mathematics

Major GPA: 3.73, 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

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.

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.

TAU BETA PI ENGINEERING HONORS SOCIETY: Involved in community service and other engineering events.

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)