

Zicheng He

(845)300-8658 | bgc4bx@virginia.edu | Charlottesville, VA 22903 | [linkedin.com/in/zicheng-he-9b8670298](https://www.linkedin.com/in/zicheng-he-9b8670298)

EDUCATION

University of Virginia

Expected Graduation date: May 2026

B.A. in Computer Science and B.S in Statistics, Minor in Philosophy

Cumulative GPA: 4.00/4.00

Honors & Awards: Dean's List Fall 22' & Spring 23', Nomination of the Gosnell First-Year Essay Contest

Relevant Coursework: Data Structure and Algorithms, Computer Systems and Organization, Software Development Essentials, Discrete Mathematics, Intro to Probability, Regression Analysis, Calculus III, Linear Algebra

SKILLS

Programming | Python • Java • C • React.js • Node.js • HTML • CSS • Javascript • Hibernate • JavaFX • R

Tech | Django • Heroku • Firebase • Amazon S3 • Wordpress • SQL • VScode • Git • SSH • Vim

Language | English • Native Mandarin speaker

EXPERIENCE

VizPI at Virginia Tech (Intelligent Machines & Environments Lab)

April 2024 - Present

Web Developer (Full-stack)

Blacksburg, VA

- Collaborate in the design and development of the VizPI online teaching platform tailored for Virginia Tech's CS 1064 course using **React.js** and **Node.js** servicing 1000+ students in interactive online coding sessions
- Integrate real-time code evaluation system and utilize **Langchain** to improve the teaching efficiency, coupled with the development of service, route, and controller architecture to ensure robust and secure data handling
- Enhanced user interface by redesigning the UI of feedback modal, session list, unit test cases and chat system

University of Virginia | Department of Computer Science

Aug 2023 - Present

Head Teaching Assistant - CS2130 Computer System and Organization

Charlottesville, VA

- Spearheaded the CS helpdesk ticketing system handling 50+ inquiries per week, leading to a 15% drop in related issues
- Mentored 500 students in lab sessions and dedicated 5 hours weekly to office hours, providing 1-on-1 guidance to over 100 students, enhancing students ability in independent learning and debugging

A Round Entertainment | Joopi SWE Team

Jan 2024 - May 2024

Software Engineer Intern

Charlottesville, VA

- Developed the allThat website with the UX team, incorporating a location feature, a dynamic footer that transforms on scroll, a video display info site, and flexible container layouts using **Wordpress**, increasing user engagement by 20%
- Collaborated in developing a real-time chat and push notification service for a **React Native** mobile dating app, engineered robust backend interactions using **Firebase**, establishing an efficient data exchange pipeline for real-time messaging, including text and multimedia communications

PROJECTS

Django School Report WhistleBlower Application

Jan 2024 - May 2024

Application Developer

Charlottesville, VA

- Developed a user interface enabling anonymous report submissions, complete with tagging and status tracking of reports
- Created an admin dashboard for overseeing report lists, updating statuses, and providing responses
- Integrated Google Account API for secure user authentication and **Amazon S3** for various file storage
- Employed **PostgreSQL** for database management and **Heroku** for cloud hosting

JavaFX Course Review Application

Oct 2023 - Dec 2023

Application Developer

Charlottesville, VA

- Engineered a **JavaFX** CRUD application with **Hibernate** for managing academic course reviews, ensuring data persistence and 2nd Normal Form database compliance
- Developed a multi-scene JavaFX GUI including user authentication, dynamic course search, and review management, with functionalities of search filtering and review editing

React Quick Chat Application

Apr 2024 - Present

Application Developer <https://quick-chat-susan-f03bfbd73eb7.herokuapp.com/login>

Charlottesville, VA

- Developed a real-time chat application in **React**, leveraging React contexts for efficient state management.
- Engineered features for real-time messaging and updates, enabling seamless text and image communication.
- Utilized **npm** for effective package management, employed **Firebase** for database management and **Heroku** for cloud hosting