

Ahmad Waleed

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EDUCATION

North Carolina State University, Raleigh, NC
Bachelor of Science in Computer Science
Major GPA: 4.0 | Cumulative GPA: 3.9

Expected Graduation: *December 2023*

Wake Technical Community College, Raleigh, NC
Associate of Science | GPA: 4.0/4.0

December 2021

Relevant Coursework: Advanced Java, Advanced C++, C programming, Data Structures and Algorithms, Automata Grammar and Computability, Technical Writing for Engineering, Advanced Algorithms, Intro to AI, Software Engineering, Privacy and Security, Database Management

WORK EXPERIENCE

Software Product Development Intern | Siemens | Wendell, NC

August 2022 – Current

- Introduce new electric vehicle charger management software to the market through strategic product lifecycle management scenarios at Siemens.
- Perform testing on various software platforms for compatibility with Siemens' chargers.
- Manage Siemens charging site in Wendell to achieve 90% uptime.

Back-end Software Engineer Intern | UnitedHealth Group | Raleigh, NC

June 2022, 2023 – August 2022, 2023

- Implemented pre-fill algorithms for OptimalCare using Java Spring Boot, MySQL, and Angular to save doctors two hours per week.
- Developed highly efficient algorithms capable of processing thousands of patient data within two seconds.
- Created multiple APIs to store patient data as JSON in MYSQL to help ease load on frontend engineers.
- Demonstrated a strong commitment to Agile development methodologies.
- Actively participated in shark tank-style presentations, showcasing innovative ideas and solutions.

Database Developer | NCSU Retro Mobile Gaming Database | Raleigh, NC

June 2021–May 2022

- Developed the frontend of RMGD and implemented backend services using JavaScript, HTML, and CSS.
- Engaged in all stages of the software development lifecycle, including analysis, design, development, testing.
- Automated and improved the existing capabilities of RMGD.
- Submitted detailed weekly technical reports.

Software Development Intern | Conceptual Resources | Raleigh, NC

January 2022–May 2022

- Defined essential system attributes, including security, reliability, scalability, and performance.
- Conducted in-depth research on modern technology stacks to build a Cloud Native stack.
- Established an Ubuntu server on Amazon Web Services EC2 instance to conduct comprehensive testing of various bug trackers.
- Utilized Docker containers to install and configure existing bug trackers effectively.

SKILLS

Programming Languages

Java, JavaScript, C++, C, HTML, CSS

Frameworks

Frontend: Angular, React, Vue | Backend: Spring Boot

Technologies | Software | Environments

Unix/Linux, Ubuntu, Amazon Web Services, Jenkins, Eclipse, VS code, GitHub, Git, Docker, PuTTY, Node.JS, Regex, Postgres, MYSQL, Postman, Figma, NOSQL

Certifications

Microsoft Word – *June 2017* | PowerPoint – *May 2016* | Excel – *June 2017*

Foreign Languages

Urdu - *Native* | Hindi – *Proficient* | Punjabi – *Proficient*

PROJECTS

- **CoffeeMaker** | Used Java Spring Boot and Angular to create a POS system for a coffee shop
- **EventPlanner** | Used Java to create an event planning system
- **WolfScheduler** | Used Java to create a scheduler for students' coursework and other activities
- **PackScheduler** | Used Java to create a course registration system
- **IssueManager** | Used Java to create a bug tracking system like Bugzilla

HONORS AND AWARDS

The Rube Goldberg Competition | Wake Technical Community College | Role: Team Leader

- Collaborated with fellow engineering students to build a complex machine to pop a balloon
- Designed an entertaining, but effective model that left judges shocked
- Earned Most Complex Machine Award through excellent communication and collaboration

President's List | Wake Technical Community College | Fall 2019 to Spring 2021

- Received recognition for achieving a 4.0 GPA

Dean's List | North Carolina State University | Fall 2021 to Current

- Received recognition for achieving above 3.5 GPA

To whom it may concern,

I am writing this letter to recommend Ahmad Waleed for the Student Travel Grant for the IEEE Secure Development Conference to be held from October 18 to 20, 2023, in Atlanta, GA. As Ahmad's research advisor, I have had the privilege of observing his dedication and passion for the fields of security and privacy, and I am confident in his potential to benefit immensely from this conference.

In his academic tenure at North Carolina State University, Ahmad has maintained an impressive Cumulative GPA of 3.9 and a Major GPA of 4.0 in Computer Science. Beyond the grades, what truly distinguishes Ahmad is his proclivity for understanding the nuances of security and privacy. The course "Privacy and Security" that he undertook during his education is testament to his dedication in this domain.

Ahmad's internship roles, particularly his work with Siemens and UnitedHealth Group, have provided him with a strong foundation in software development. While working with Siemens, he was involved in the launch of an electric vehicle charger management software, where security and efficiency were paramount. Moreover, at UnitedHealth Group, Ahmad showcased his ability to handle and process large amounts of patient data securely, swiftly, and effectively. However, it isn't just his academic and professional achievements that stand out. Ahmad's side projects, including the 'IssueManager'—a bug tracking system akin to Bugzilla—further demonstrate his interest in managing software vulnerabilities and ensuring optimal system performance.

The IEEE Secure Development Conference is a unique platform that converges leading minds in the field of security and privacy. Given Ahmad's background and fervor for the subject, I believe his participation will not only benefit him academically but will also provide him with a broader perspective on real-world challenges and potential solutions.

Regarding his financial need, attending this conference would place a significant financial burden on Ahmad. The travel grant will ensure that he can participate without any impediments and gain the most from this opportunity. Ahmad receives 100% of the pell grant for his financial aid which justifies his financial need.

Sincerely,

Karthik Suryavamshi

To whom it may concern,

I am Ahmad Waleed, a dedicated student of Computer Science from North Carolina State University. I am applying for the Student Travel Grant for the IEEE Secure Development Conference, and I'd like to provide a detailed insight into my research interests and what I anticipate to gain from attending this esteemed event.

Research Interests:

My profound interest in the domain of Computer Science has primarily gravitated towards the realm of security and privacy. Given the rapidly digitizing world, the implications of a breach in the security frameworks and violation of privacy norms are monumental. My coursework in "Privacy and Security" has further deepened my understanding of the significance of establishing robust security measures and safeguarding users' privacy in all software applications. Furthermore, my independent project, the 'IssueManager', was an embodiment of my interests, where I aimed at tracking software vulnerabilities efficiently. I am ardently working towards blending cutting-edge technology with optimum security measures to fortify software against potential threats.

Benefits from Attending the Conference:

The IEEE Secure Development Conference is a unique opportunity for me to further my knowledge in the security and privacy fields. By attending this conference:

Knowledge Expansion: I anticipate immersing myself in the vast ocean of knowledge shared by pioneers and experts in the domain. The sessions, discussions, and presentations will offer a broader understanding of the latest advancements, challenges, and solutions in security and privacy.

Networking: Being amidst professionals, researchers, and students who share similar passions will enable me to forge connections. Networking will not only help me in my academic pursuits but also provide potential collaborations for future projects.

Real-world Application: Understanding the practical implications and real-world challenges through case studies and interactive sessions will equip me to apply theoretical knowledge more pragmatically in real-life scenarios.

Inspirational Ideas: Observing the plethora of innovations and developments at the conference will inspire and provide fresh perspectives for my future endeavors in research and development within the security and privacy arena. In essence, this conference represents an invaluable learning opportunity, a stepping stone to furthering my aspirations and honing my skills in the field of security and privacy. I am ardently hopeful for the chance to be a part of this esteemed event and promise to utilize the knowledge and experience gained for the betterment of the community.

Thank you for considering my application.

Warm regards,

Ahmad Waleed