**Yusuf Halim**

(641) 451-3587 | hallimyussuf@gmail.com | linkedin.com/in/yusuf-halim | github.com/halimyu

**Education**

**The University of Iowa** | Iowa City, IA May 2025

*B.S.E. – Computer Science & Engineering*

**Certifications**

AI Programming with Python Nanodegree | Udacity February 2024

Microsoft Azure Quantum Winter School | Qubit by Qubit February 2023

**Technical Skills**

**Languages:** Java, Python, Objective C, C, C++, C#, Ruby, Dart, JavaScript, Haskell, Q#

**Frameworks:** Angular.js, .Net, Django, SpringBoot, Docker, Ruby On Rails, React.js, RESTful APIs, Node.js, Flutter

**CI/CD Tools:** Git/Github/Gitlab, Atlassian/Jira/Confluence, Google Cloud, Azure Cloud, AWS/S3/EC2/Sagemaker

**IDE Tools**: VS Code, IntelliJ, PyCharm, CLion, Android Studio, RubyMine, RStudio, MATLAB

**Machine learning Tools:** Pandas, NumPy, Matplotlib, Seaborn, SimpleCov, Scikit-Learn, PyTorch, TensorFlow

**Testing tools:** JUnit, RSpec, Capybara, Jasmine, Vitest, Cucumber, Pytest/Pytest-Docker, Selenium

**Data Tools:** Spark, Hadoop, PostgreSQL, MySQL, MongoDB

**Experience**

**The University of Iowa IT Services** | Iowa City, IA June 2023 – Present

*IT Support Assistant* January 2025 – Present

* Provide technical assistance to students, faculty, and staff via phone, email, live chat, and in-person interactions
* Troubleshoot and resolve hardware, software, and network issues to minimize disruptions
* Assist users with device registration, password resets, and account management for secure access
* Document and track service requests using the university’s IT service management system

*Specialist Assistant* September 2024 – January 2025

* Installed and maintained fiber optic cabling to support campus network and wireless infrastructure
* Collaborated with Enterprise Infrastructure team to manage and upgrade communication closets
* Assisted in deploying and configuring network hardware to expand campus-wide coverage
* Conducted routine inspections and troubleshooting to minimize downtime and maintain operations

*Software Developer Intern* June 2023 – August 2024

* Enhanced user experience and functionality by developing and maintaining MyUI and MAUI systems
* Resolved over 100 bugs to boost system reliability and efficiency
* Contributed to 50 projects, innovating and implementing platform features
* Engaged in full-stack development, delivering on both front-end and back-end components

**The University of Iowa** | **TRIO SSS** | Iowa City, IA October 2024 – December 2024

*Engineering Tutor*

* Conducted individual and group sessions for Calculus, Engineering Problem Solving, and Circuits
* Tailored learning approaches to diverse styles and academic needs
* Applied theoretical knowledge to help students solve real engineering challenges
* Monitored progress, providing constructive feedback to boost understanding and confidence

**The University of Iowa Department of Engineering** | Iowa City, IA August 2023 – May 2024

*Software Engineering Research Assistant*

* Revived assistive app for visually impaired, leveraging spatialized audio for enhanced navigation
* Integrated 3D world scanning and AirPods support for dynamic, real-time feedback
* Debugged and tested app to ensure performance and dependability

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**Projects**

**Athletic Insider** | *Django, React.js, PostgresSQL, Docker, Apache Airflow, Jira, AWS* January 2025 – Present

* Automate 200+ branch creations saving 150 minutes for development time
* Document all team meetings and project details in Confluence to ensure transparency and easy access
* Assist team of 5 in environment setup to accelerate configuration and boost development speed
* Implemented testing strategies that reduced production bugs by 25% and boosted overall app reliability
* Developed RESTful API endpoints with Django, ensuring data flow between the frontend and PostgreSQL database
* Containerized microservices using Docker and streamlined deployments on AWS EC2, resulting in improved scalability and a 30% reduction in system downtime
* Collaborated with cross-functional teams using agile and scrum methodologies to incorporate user feedback, continuously refining the platform for enhanced usability and transparency

**SmartLink** | C++, Python, PyTorch, ExecuTorch, Raspberry Pi, RF Modules, Git January 2025 – Present

* Develop a two-way ML compression framework using autoencoders to extend wireless range and reliability
* Integrate modular control and remote devices for low-latency video transmission and responsive control
* Engineer RF communication protocols that reduce bandwidth consumption while ensuring error resilience
* Collaborate cross-functionally among RF, embedded, and robotics teams to optimize system design

**Shards of the Grids** | *Ruby on Rails, Haml, Postgres, Heroku, Git* August 2024 – December 2024

* Crafted and implemented a responsive web app design to elevate user engagement and visual consistency
* Debugged and tested code with over 90% coverage to uphold quality standards and minimize deployment risks
* Enforced strict branch rules via Git workflows to reduce merge conflicts and prevent unauthorized code changes
* Led regular agile stand-up meetings (how) to provide status updates and promptly address challenges
* Documented sprints and finalized the database schema to ensure project transparency and knowledge sharing

**Flowers Image Classifier** | *Python, PyTorch, VGG16, DataLoader, Matplotlib* January 2024 – February 2024

* Developed a deep learning model with PyTorch, achieving high accuracy in flower image classification
* Employed data augmentation with DataLoader to improve model generalization and reduce overfitting
* Built a Command-Line interface app to facilitate user-friendly training and prediction on custom datasets

**ISocial** | *Java, Firebase, UI/UX design, Android Studio, Git* | 1st Place Recipient January 2021 – March 2021

* Developed an Android app with a Java integrating Google Auth to provide secure and seamless user access
* Leveraged Firebase for real-time user data storage to enable smooth login and robust profile features
* Refined UI/UX through iterative design enhancements to balance functionality with intuitive user experience

**Engineering Student Organizations**

**Institute of Electrical & Electronics Engineering (IEEE)** | *Secretary*  September 2024 – Present

* Document meeting minutes and maintain records for seamless information sharing amongst 76 members
* Assist in re-establishing the IEEE Student Branch and achieving university recognition
* Manage correspondence, coordinate event schedules, and share updates with members
* Oversee membership rosters and committee assignments to ensure efficient organizational operations
* Ensure adherence to branch's constitution and bylaws to promote organizational integrity and compliance

**National Society of Black Engineers (NSBE)** | *Member* August 2024 – Present

* Participate in monthly professional development and networking events, enhancing industry connections
* Engage in community outreach initiatives to promote STEM education and pursue engineering careers
* Volunteer in career fair setups and student check-ins to maintain an efficient flow and minimize waiting times