

KHUM REGMI

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Self-motivated and passionate Software Developer with a proven track record in full-stack development and hardware programming from requirement analysis to design and deployment. Dedicated to making a positive lasting impact in software development through design, programming, and analytical skills- by learning and improving with every day.

TECHNICAL SKILLS

Programming: JavaScript, HTML, CSS, Java, Python, MATLAB, C/C++

Dev Tools: VSCode, Postman, Git, Spyder, Eclipse, Chrome DevTools, Slack

Hardware Description Platform: Verilog, System Verilog, VHDL

Tools: GrovePi, RaspberryPi, Sensors Microprocessor Chips

Framework/Libraries: React.js, Express.js Node.js, React Native

Remote Utilities: VNC, Remote Desktop, SSH, Telnet

Operating Systems: Linux Ubuntu, Windows, macOS

Relevant Skills: MongoDB, REST API, Sublime Text

EXPERIENCE

Full Stack Developer Intern

07/21—Present

Algorizin, Inc. – New York, NY

- Created web and mobile application for alumni network called “Nudge” which has features such as video conferencing, text sending, calendar scheduling, and users authentication to provide a relevant match; contributed primarily in developing frontend section using React Framework; used Java as the backend, and AWS for the cloud Service; URL: <https://rebrand.ly/WithANudgeApp>, Mobile App: <https://rebrand.ly/WithANudgeMobile>
- Developed a web food ordering app that allows users to search and find restaurants based on their location and food preference; authenticated users are able to add reviews and add food items into their card; uses React.js, Express.js, Node.js and RESTful API; URL: <https://rebrand.ly/Food-Sniper>
- Built a frontend application that allows the user to keep track of a budget while considering the income and expenses; used vanilla JavaScript, HTML, and CSS for styling; URL: [Link](#)

Undergraduate Research Assistant

09/20—05/21

Department of Electrical Engineering – The University of Mississippi, Oxford, MS

- Implemented Advanced Encryption Algorithm (AES) 128-bit encryption/decryption algorithm in Verilog Hardware Description Language and established real-time end-to-end encrypted communication and data transfer between FPGA boards in close proximity using AES and UART protocol with Python and Verilog HDL in Vivaldo platform
- Monitored research members' attendance, progress, and equipment utilization during the weekly meetings alongside preparing and presenting expense reports for the equipment purchased
- Prepared and delivered a departmental presentation and comprehensive research paper at the completion of the project; URL: [Document-Link](#)

Intern - Technical Assistant

05/20—09/20

XD Theater Triotech – Ocean City, MD

05/21—07/21

- Inspected and repaired basic electrical components, kept track of shipping items, installed new devices and equipment as needed like projectors, speakers, pre-amplifiers, etc. using manual and verbal instructions
- Performed circuit-level and system-level troubleshooting efficiently caused by overuse, extreme weather, and other unfavorable conditions

Student Tutor

10/19—05/21

FedEx Student-Athlete Success Center – The University of Mississippi, Oxford, MS

- Trained student-athletes and carried out the group and individual study sessions on college-level Physics, Mathematics, and Computer Science courses
- Developed new ideas to make the sessions more effective and shared them with colleagues during monthly training; provided documentation to the Athletics Department after each session

Resident Assistant

08/18—04/20

Department of Student Housing – The University of Mississippi, Oxford, MS

- Delivered excellent customer service to the dormitory residents and visitors, took phone calls, wrote emails, maintained excel worksheets, reported maintenance needs, helped engage the freshmen residents with the community

EDUCATION

B.S. in Electrical and Computer Engineering

07/17—05/21

University of Mississippi, Oxford, MS, GPA: 3.88/4

- Excelled in courses: Java, OS, Assembly Language, Microprocessor Systems, and Computer Engineering
- Devised a sleep monitor using Grove Pi components, light and sound sensors, and a smart bulb using Python in Raspberry Pi; URL: [Sleep Monitor](#)
- Comprehensive study and departmental presentation on development/mechanism of generations of cellular networks from 1G through 5G, and shortcomings that inspired next generations of cellular technologies; URL: [Document-Link](#)

HONORS AND AWARDS

Academic Excellence Award (2017-21) || Sally McDonnell Barksdale Honors College (2019-21) || Chancellor's Honor Roll (2017-21) || Provost Scholar (2017-19) || Engineering Leadership Award 2021 Nominee || Ole Miss Robotics Club (2017-18) || Institute of Electrical and Electronics Engineers (2017-19) || Top 10 High School Graduate, St. Xavier's College || Green Grove Volunteer (2018-20)