Rajat Nepal

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EXPERIENCE

DevSTAC   **Remote**
Lead Software Engineer and Product Manager   *October 2023 – Present*
- Led a team of 5 student employees specializing in integrating cutting-edge technology to enhance the WashU campus experience.
- Served as a liaison between WashU and internal/external clients, offering app development, meticulous debugging, efficient project management, captivating graphic design, and engaging digital content creation.
- Successfully collaborated with renowned clients like Uber and esteemed research organizations, delivering top-tier technological products and bridging the gap between academia and industry.

Capital One   **Chicago, IL**
Full Stack Software Engineer Intern   *June 2023 – August 2023*
- Designed and developed a full-stack application using Vue.js, Node.js, DynamoDB, custom API calls, and AWS Lambda architecture in an agile team of 4 interns.
- Implemented patented technology to customize configurations in Amazon's Simple Queue Service, resulting in a 19.7% decrease in operations wait times and a 26.4% increase in efficiency for customer-agent matching.
- Enhanced the customer service experience by accurately matching 750,000+ daily customers' problems with the 800+ specialized skills of Capital One's 35,000+ call center agents.

Dost AI   **Barcelona, Spain**
CEL Consultant   *August 2022 – October 2022*
- Collaborated with an interdisciplinary team of Law, MBA, MS, and BSBA students to provide consulting services to a Barcelona-based intelligent document processing start-up as a part of Olin's Center for Experiential Learning (CEL).
- Identified current and new competitors in Spain/Europe and the U.S. to differentiate product and marketing strategies.
- Analyzed core products and defined strengths/weaknesses, usability, and new functions to develop a product roadmap.
- Outlined strategic plans for entering the U.S. market, including opportunities for acquisitions and collaborations.

United States Federal Reserve System   **Remote**
Software Development and Product Management Intern   *June 2022 – December 2022*
- Programmed updates to 5 of the Fed's customer-facing FinTech apps in C#, .NET, and SQL.
- Collaborated with an agile team of 6 software developers and 2 product managers in the Application Development and Technology Office of the Fed's Banking Supervision Group.
- Managed a cross-functional team of interns and stakeholders for the Fed's Business Interdisciplinary Event (BIE), which resulted in implementing new products in the economic education industry.

Washington University Curling Club   **St. Louis, MO**
Founder, President, Varsity Captain   *August 2021 – December 2023*
- Established the St. Louis Collegiate Curling League with the President, Treasurer, and League Director of the STL Curling Club.
- Planned six basic "learn-to-curl" training sessions for new members, two advanced "learn-to-curl" sessions with an Olympic Gold Medalist for the competitive team, and three recreational leagues.
- Secured funding from WashU for a travel team, qualifying WashU for the 2024 USA Curling College National Championship

Nidec Motor Corporation   **St. Louis, MO**
Software Engineer Co-op   *June 2021 – June 2022*
- Developed Arduino and desktop applications in Java, C++, and C#, improving motor testing efficiency by 37.6% for the $500+ million HVAC/R business unit.
- Optimized databases, migrating local data to the cloud, enabling simultaneous access for multiple engineers, facilitated collaborative work, and increased data accessibility.
- Revamped proprietary software to cut customer programming errors, adapted to new hardware developed by Nidec, and updated user interfaces to improve human-computer interaction.

EDUCATION

Washington University in St. Louis   **St. Louis, MO**
Bachelor of Science in Business and Computer Science (BUCS), Focus in Business Analytics
- **GPA:** 4.00/4.00 | Selected as one of 20 students out of 2,000+ applicants for the new joint degree program.

SKILLS & INTERESTS

- **Technical:** Python, Java, JavaScript, C++, C#, Bash, MATLAB, Node.js, Vue.js, Spark, Hadoop, Pandas, SQL, MongoDB, DynamoDB, Git, Azure, AWS, Postman, Maven, Spring Boot, Flask, Django, Kubernetes, Docker
- **Activities:** Washington University International Relations Council (*Executive Board*), Intro to Computer Science Teaching Assistant, Olin Peer Tutor, WashU BUCS Mentor, Orientation Leader (WUSA)
- **Professional Interests:** FinTech, Big Data, Machine Learning, Artificial Intelligence, Cloud Computing, Quantum Computing