PARTH PATEL

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EDUCATION

Old Dominion University;   *May 2023 – Aug 2025*
M.S. Computer Science | **Concentration:** *Software Engineering*   Norfolk, VA
   Relevant Coursework: Algorithms and Data Structures (CS 600), Operating Systems (CS 571), Computer
   Architecture (CS 665), Reverse Software Engineering (CS 567), AI (CS 580), Data Science, Big Data (CS 620)

Old Dominion University;   *Sep 2019 – May 2023*
B.S. Computer Science   Norfolk, VA

TECHNICAL SKILLS

   Programming/Scripting Languages: Python, C++, JavaScript, TypeScript, Swift, R Studio, Java, HTML, CSS
   Frameworks and Tools: React.js, Node.js, AWS, Docker, Express.js, Firebase, PostgreSQL, Tailwind CSS
   Certifications: AWS Certified Solution Architect, Google Associate Cloud Engineer, SANS Cyber Security

WORK EXPERIENCE

ODU Smart Systems Lab   *Jan 2024 – May 2024*
Research Assistant   Norfolk, VA
- Developed a Python script to standardize and sanitize URLs for three projects, increasing web scraping efficiency by 80%, reducing processing errors, and ensuring seamless data extraction for large-scale analysis
- Synthesized data from 200+ participant responses using Python, identifying insights into digital reading's impact on comprehension, improving engagement strategies, and enhancing user retention for educational programs
- Designed and implemented scalable web scraping pipelines in R to extract and analyze data from 500+ websites, uncovering trends in language comprehension across demographics and improving targeted learning strategies

theCut   *May 2022 – Present*
Software Engineer Intern   Vienna, VA
- Spearheaded the transition from monolithic architecture to modular libraries, reducing average test run times by 33%, optimizing deployment workflows, and fostering rapid iteration during software development and updates
- Directed the division of backend services into modular libraries, improving test efficiency by 50%, accelerating development cycles, and enhancing maintainability to boost productivity and team collaboration
- Authored comprehensive documentation for 50+ fraud assessment attributes, reducing onboarding time by 25%, improving accessibility, and enabling efficient knowledge transfer and seamless integration into workflows

PROJECTS

CodeFusion: Revolutionizing Real-Time Collaborative Coding   *Jun 2024 – Present*
- Developed a real-time collaborative code editor with multi-user synchronization using WebSocket technology, ensuring low-latency performance and enhancing seamless collaboration across users during live coding sessions
- Engineered a responsive UI with Tailwind CSS and implemented MongoDB for session management, enabling syntax highlighting for 10 languages, improving data retrieval by 30%, and enhancing collaborative experience

FinTrack: Simplifying Personal Finance Management   *Nov 2023 – May 2024*
- Built a full-stack personal finance application that enables users to track expenses, set budgets, and visualize financial data using interactive charts, integrated with Stripe API for secure payments and tap-to-pay functionality
- Designed a highly responsive and user-friendly interface with React.js and implemented robust JWT-based authentication to ensure secure, fraud-resistant user access and seamless management of sensitive financial data

HomeIQ: Innovating Smart Home Automation   *Jan 2023 – Aug 2023*
- Programmed an IoT-based smart home automation system with a React.js dashboard, enabling remote control of appliances, real-time communication via MQTT, Firebase state management, and automated scheduling

LEADERSHIP & PROFESSIONAL DEVELOPMENT

Management Leadership for Tomorrow   *Mar 2023 – Present*
Career Prep Fellow   Bethesda, MD
- Chosen as one of 1,000 candidates nationwide for an elite 18-month program focused on developing high-performing, diverse professionals through exclusive career development conferences hosted by Deloitte, Google, Goldman Sachs, Clorox, and Target

Interests: Hiking, Scuba Diving, Skiing, Basketball, Chess, Travelling, Ziplining, PC Building, Italian Food, Reading