

# PAUL NEGEDU

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## EDUCATION

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### The University of Kansas

Bachelor of Science, Electrical Engineering

## SKILLS

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- Adept at software development on Linux, FreeBSD, cloud platforms, windows, yocto, and OpenShift
- Versed with various API architecture styles like REST, SOAP, web-sockets, webhooks, GraphQL and rpc
- Understanding of scrum and secure and agile software development life cycle (SDLC) methodologies
- Proficient with software security and code quality tools like BlackDuck, Twistlock, Checkmarx, and SonarQube
- Conversant with CI/CD, DevOps technology - Jenkins, Docker, Kubernetes, Helm, Nagios, Prometheus and Grafana
- Experience with Java Spring-Boot, TypeScript/JavaScript M.E.V.N. & M.E.R.N. full-stack web development
- Familiar with Redis, Cassandra-DB, MySQL, MongoDB, PostgreSQL, Neo4j, Elastic Stack and Apache Kafka

## WORK EXPERIENCE

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### Software Developer 1 | APEX | DELL Technologies

- Delivered APEX orchestration services to provide Infrastructure as a Service (IaaS) to 16,000+ customers.
- Orchestrated hyperconverged (HCI) abstraction, pooling, and automation of high availability clusters.
- Programmed temporal workflows for data mobility between storage arrays, executing 38,000+ workflows daily.
- Accelerated testing efforts using pytest to drive an internal developer test framework for 5 storage systems.

### Software Developer 1 | PowerFlex | DELL Technologies

- Integrated user federation through LDAP to Active Directory for SSO, authenticating 12,000+ employees.
- Modernized a distributed and micro-service architecture with RabbitMQ for messaging and Keycloak as IAM.
- Automated tasks using bash scripts, puppet modules, ansible playbooks and terraform for 700+ tasks.

### Intern | iDRAC Team | DELL Technologies

- Implemented asynchronous services in OpenBMC with green threads which reduced translation time by 40%.
- Deployed linux systemd d-bus as an inter-process communication protocol between 34 firmware services.
- Mapped existing iDRAC data from Redfish API responses to OpenBMC object mapper for 87 different endpoints.

### Intern | Cyber Security | RSA Security

- Formulated blackduck, twistlock and checkmarx remediation plans for 100% of vulnerabilities discovered by scans.
- Utilized protractorJS to implement automated end-to-end testing on RSA Archer Suite with ≥85% code coverage.

## PROJECTS

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### Smart Suitcase Prototype

<https://paulnegedu.com/home.html#projects>

- Compute real-time vision tracking using TensorFlow's API, detects user's body landmarks with latency of 3.94ms.
- Applied perspective projection on body landmarks to calculate user's location with an accuracy of ±0.1m over 2m.
- Hosted user interface (UI) with NextJS on an ESP32, communicating controls and feedback via web-sockets.

### WhatsApp Bot

<https://github.com/paulnegz/whatsapp-payment-bot>

- Digitized parsing bank payment with an interactive bot built on selenium, capable of parsing 6 payment types.
- Achieved optical character recognition (OCR) of bank payment details with tesseract, a Machine Learning library.

## LICENSES & CERTIFICATIONS

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- AWS Certified Cloud Practitioner
- Linux Professional Institute Certification LPIC-1