

JOHN PRATT

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EXPERIENCE

Pratt Industries, Remote (Vienna, VA)

May 2020 - Present

Founder/CEO, Software Engineer, Coach

- Taking on local & non-local life coaching, career coaching & IT consulting projects as my schedule allows; looking to wind down operations & take on my next full-time/long-term contract role
- Sourced, trained & supervised international team of 5+ freelancers to handle day-to-day business operations work for the firm, including sourcing & qualifying new work leads
- ContentMachine - Gained ~100k views on TikTok so far by creating a fully automatic cloud-deployed pipeline for AI-generated short-form entertaining videos. Uses Python, AWS, OpenAI's API, NLP, & more

Duke Energy Corporation, Remote (Charlotte, NC)

Jul 2021 - Jan 2024

Senior Software Engineer

- Saving Duke ~\$1M in Labor Capacity by end of 2024 by leading backend & DevOps for Orbit, an iPad app replacing manual data acquisition and logging at **~100 Duke power plants with several thousand users**. Used Python, AWS (Lambda, API Gateway, S3, IAM, CloudWatch, DynamoDB, VPC...), Node.js, Terraform, Bash, Concourse, & more
- Enabled user file attachments by integrating Orbit API with AWS S3 with custom Terraform module
- Enforced 90% code coverage for Python unit tests, ensuring code reliability
- Coordinated, managed, and performed production releases
- Accelerated prod incident tracking with DynaTrace/AWS X-Ray dashboards, to ease process of issue tracking
- Eased onboarding and reduced release times by 30% by refactoring API endpoint Terraform code
- Sped up AWS Lambda functions by ~21% using shared runtime environment & caching
- Architected, pitched, & created custom "documentation generation" component to streamline communication of new API features. Uses EventBridge, CloudTrail & more
- Shrunk Concourse codebase by ~35% by migrating from Terraform OSS to Enterprise
- Reduced infra PR merge time by 8-24h by migrating AWS infra from shared to dedicated environment
- Enhanced code quality & security by integrating SonarQube, Sonatype IQ, & CheckMarx into CI/CD pipeline
- Boosted reliability of Orbit API with Postman integration/load tests, written with auto-generating web-scraper
- Reduced Integration Test PR merge time, & codebase size by ~94% with Chai.js/Javascript Postman helper functions
- Led collaborative efforts with 5+ Duke "Communities of Practice", along with 6+ project teams, enabling scalable & reusable features and cross-project collaboration
- Enhanced custom SwaggerDoc security w/custom Node.js authorizer, ensuring incoming traffic was from Duke network

Capital One, McLean, VA

Summer 2017, 2018; Aug 2019 - Jun 2021

Software Engineer; Technology Development Program Mentor; Software Engineer Intern

- Saving Capital One **~\$10k in fines per customer annually** by creating the data fulfillment pipeline for CCPA compliance for its **~100 million customers**, enhancing customer privacy. Used Python, AWS, Docker, Java Spring Boot, Apache Airflow, Apache Kafka & more
- Wrote component for processing & uploading zip files of customer assets (CCPA records) to S3 & alerting web app team via Apache Kafka so they can email customers
- Created Kafka consumer component to process privacy requests ready for processing by our pipeline
- Helped create Python component "Query Builder" to dynamically generate PostgreSQL & Snowflake queries
- Facilitated project shifts for improved value-add & return offers for 2 interns while leading professional development for 5 engineers
- Ensured seamless CI/CD by increasing unit test coverage to 90%+ for all components in our pipeline
- Screened 20+ software engineer applicants & got 1 peer hired at the firm by engaging in technical interviews & recruiting
- Supported Capital One pilot-program data warehouse SaaS (Slingshot) - Python, Java Spring Boot, AWS ECS, Docker, AWS DynamoDB, protobuf/gRPC, React, Snowflake

Lockheed Martin, Manassas, VA

Summer 2015, Summer 2016

Tech Intern; Senior Tech Intern (held Secret Security Clearance in 2016)

EDUCATION & CERTIFICATIONS

Georgia Institute of Technology, Atlanta, GA

Bachelor of Science - Computer Science (concentrations: Artificial Intelligence, People)

Amazon Web Services

2021-2024

Certified Solutions Architect - Associate (SAA-C02), Certified Developer - Associate (DVA-C02), Certified SysOps Administrator - Associate (SOA-C02), Certified DevOps Engineer - Professional (DOP-C02), Certified Advanced Security - Speciality (SCS-C02), Certified Cloud Practitioner (CLF-C02)

Google Cloud

2023-2024

Certified Professional Cloud Developer, Certified Professional Cloud DevOps Engineer, Certified Professional Cloud Architect, Certified Associate Cloud Engineer, Intro to LLMs, Intro to Responsible AI, Intro to Generative AI

HashiCorp

2022-2024

Terraform Associate (002), Vault Associate (002)

Microsoft

2024

Azure Developer Associate, Azure Fundamentals

(Other organizations)

2020-2024

CompTIA Security+ (CompTIA); Certified Kubernetes Administrator (Linux Foundation); Certified Secure Software Engineer (Secure Code Warrior)

SKILLS

Languages, concepts:

Python (2, 3), Bash, Terraform (OSS, Enterprise), JavaScript (Node.js, React, Angular), Docker, Java (Spring Boot), Go, PowerShell; unit testing, integration testing, smoke testing, performance testing, test-driven development; CI/CD (continuous integration and continuous deployment), DevOps, GitOps, Databases, SQL (PostgreSQL/Postgres, MySQL); NoSQL (DynamoDB, mongoDB); microservice architecture, cloud pipelines, data pipelines, CI/CD pipelines; Object Oriented Design; REST/RESTful APIs; OAuth2 flow; cloud infrastructure, Infrastructure as Code (IaC), configuration management, software development best practices, troubleshooting, refactoring, analyzing & prioritizing business objectives; monitoring and logging; containerized workloads, serverless architecture; orchestration; serialization; automated testing; debugging; containerization; large language models, prompt engineering; distributed systems; B2B SaaS applications

Libraries/frameworks:

pip, pipenv, pytest, requests, boto3, unittest, coverage, requests_mock, moto, pandas, NumPy, Selenium, yt-dlp, MoviePy, mutagen, pydub, pickle, Python Imaging Library (PIL/Pillow), PRAW (Python Reddit API Wrapper), spaCy, NLTK, OpenAI, Tkinter, inflect, Django; TikAPI; nvm, npm, gatsby, yarn, webpack, Chai.js, GraphQL, SquareSpace; Maven, JUnit, PowerMock, Mockito, Apache Avro

Tools:

macOS, Windows, linux, unix, Ubuntu; Concourse, Postman, Jenkins; Amazon Web Services (API Gateway, Lambda, CloudWatch, CloudTrail, IAM, X-Ray, S3, CloudFront, DynamoDB, EC2, ECS, Route 53, WAF, VPC, EventBridge, CloudFormation templates, Secrets Manager), Azure (Active Directory/Entra ID), Google Cloud ("GCP" - Firebase, Firestore, etc.), Netlify; ffmpeg, pydub; PlantView, Apigee, DynaTrace; HashiCorp Envconsul, Vault; SonarQube, Checkmarx, Sonatype IQ; Artifactory, Sonatype Nexus; Git/GitHub, BitBucket; cURL, Snowflake, HomeBrew; Splunk, PagerDuty; Apache Airflow, Kafka, ZooKeeper; Agile, Scrum, SAFe, JIRA, Confluence; OpenAI API (Whisper, GPT), Eleven Labs API, TikTok API, Pexels API, Pixabay API, Playwright; Swagger, OpenAPI; JSON, YAML, XML, HTML; ChatGPT, Amazon CodeWhisperer, Claude, GitHub Copilot

Soft/People:

Project management, SDLC (software development lifecycle), talent development, mentoring, recruiting, public speaking, leadership, code review, problem-solving, decision-making, writing user stories, constructive feedback