Peter Sherk

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North Carolina State University '17 – B.S Computer Science, Psychology Minor *Cum Laude*

Skill Level

🟡 High   ◗ Medium   ◣ Low

Languages	**Tech Stacks**	**Other**
🟡 Java	🟡 Spring Boot	🟡 Cucumber | JUnit | Spock
◗ Python	🟡 Angular	🟡 Postgres | MariaDB | SQL
🟡 HTML | CSS	🟡 Git	◗ Bootstrap | Bulma
🟡 Bash	◗ Node.js | Express	🟡 AWS
🟡 JavaScript | TypeScript	🟡 Docker | Docker Compose	◣ Vue | React
◣ C | C++ | C#	◗ JPA	◣ Terraform

Experience

Fidelity Investments

Principal Software Engineer   **November 2023 – Current**

- Member of Cognitive Computing team tasked with development on next-generation AI-driven chat-bot and Virtual Assistant (VA) technologies. Embedded on external team integrating with the VA as knowledge expert helping with implementation and product direction related to their specific use cases.
- Management of multiple Node/Express based REST, GraphQL and experience micro-services that integrate Natural Language Processors (NLP's) into intelligent VA's.
- Work on internal tooling to manage and train VA experience, written in Node.js, Vue.js, MongoDB, DynamoDB, S3 and Python.
- Contribute to overall coding standards and future vision of VA platform, including meeting with stakeholders to gather requirements and plan work for the broader platform.

Senior Software Engineer   **April 2022 – November 2023**

- Heading development of new Portfolio Analysis tools as our Chapter's only Senior-level Technical Lead.
- Contributing directly to architecture decisions, business application questions, and to UI/UX design and user functionality.
- Application built using Java/Spring Boot and Angular, deployed with Docker on EKS using Terraform and Jenkins Core. Personally responsible for setting up our initial application structure and CI/CD infrastructure used to deploy on AWS.
- Responsible for legacy application maintenance, enhancements and production incidents while writing extensive documentation on application.
- Guiding newer developers on development standards and quality by answering coding questions, pair programming and being available for code review.
- Contributed code to other teams to help create a better coding ecosystem for all.

Bandwidth - *Senior Software Engineer*   **April 2021 – April 2022**
                Software Engineer II   **November 2020 – April 2021**

- Part of Edge Services team, scaling brand new products from R&D leading architectural changes, AWS infrastructure deployment, buildout of new features as well as monitoring and debugging tools. Heavy AWS exposure to API Gateway, Lambda, EC2, Dynamo, VPC's, DataDog, and much more.
- Worked on new WebRTC video conferencing application and new 2FA offering. Built front-end Node.js packages to help clients integrate with our SIP servers, conferencing API's, and SMS API's to send 2FA codes. Exposure to Node, React, GraphQL and CloudFormation
- Built an API Adapter that went from concept to onboarding our first client in Production in 3 months.

Fidelity Charitable - *Software Engineer*   **April 2019 – November 2020**

- Created and maintained software for www.fidelitycharitable.org, with a user and architecture first mindset.
- Additional development for multiple internal applications.
- Exposure to Spring Boot, Docker, AWS, iOS and Full Stack development.
- Rewrote batch jobs in Spring Batch that took over 3,000 lines of PL/SQL code and transformed it into testable, performant nightly processing of key infrastructure.

Fidelity Investments - *Associate Software Engineer*   **January 2018 – April 2019**

- Tasked with piloting new technologies and software for Fidelity.
- Worked closely with Fidelity's R&D team to explore usage of Ethereum blockchain technologies for new investment strategies. Exposure to Docker, PCF, Angular, Postgres, Python, Solidity and Full Stack development.

Activities and Accolades

- **2022 FI IMPACT Award Winner –** For keeping inherited legacy application up and running as only developer on team for months.
- **Co-Lead of IMPACT Club** – Co-Leader of Fidelity's sustainability club tasked with spreading awareness of sustainable practices at home, in the community and at work.
- **Certified Interviewer for the LEAP program** – Helping hire the best and brightest talent to Fidelity's LEAP program.
- **Innovation Challenges**: Participate in various coding challenges at Fidelity.
- **Singing** – North Carolina Master Chorale, Concert Singers of Cary
- **Volunteering** – Mentor for [Code the Dream](#), Fidelity Cares
- **Hiking** | **Music** | **Running** | **Camping** | **Cooking** | **Traveling**