Andrei Punko

Senior Java backend developer with 11-year experience in the creation of web- and distributed applications

- Main technology stack – is Java with a standard set of frameworks for backend development
- Have hands-on experience with Git and CI tools
- Able to use Unix command line in the scope of usual backend tasks
- Have knowledge of common algorithms and data structures
- Able to cover code with a wide range of tests: unit / integration / functional / performance
- Have some experience in math, physics and numerical modeling
- Likes clean & tested code, refactoring, writes documentation

Contacts

- Telegram: `@andreipunko`
- E-Mail: `andd3dfx@gmail.com`
- Skype: `andrei.punko`

Links

- Github: https://github.com/andrei-punko
- Youtube: https://www.youtube.com/@andd3dfx
- Garmin: https://connect.garmin.com/modern/profile/754a6849-312d-4bcc-bda2-631f5ebe0477
- This CV in PDF: https://raw.githubusercontent.com/andrei-punko/cv/master/CV/pdf/Andrei_Punko_CV_(eng).pdf

Education

- Belorussian State University. Faculty of Physics. 5 years of education

  Qualification «Physicist-Researcher», specialization «Solid-state physics»

- English - B1 (Intermediate)

Business-Domains

- Entertainment
- FinTech
- Documentation
- Travelling
- Instrumentation

Key skills

- Java 6-8/11/17 and a bit of: Groovy, Kotlin, Go, Lua, C, Python
- Spring (Core, Boot, Data, Rest), Jackson, MapStruct, Lombok, Akka, Quartz, Camel
- JPA, Hibernate, iBatis, Liquibase / Flyway, SQL
- H2, Oracle, PostgreSQL, Redis, Tarantool
- JUnit, Mockito, JMock, Wiremock, Testcontainers, Spock, Gatling, k6
- Maven, Gradle
- Nexus, JFrog
- Jenkins, TeamCity
- ActiveMQ / RabbitMQ
- REST API, Microservices, ELK, Grafana
- AWS, Docker, Openshift
- Corda DLT (certified Corda developer)
- Software Development Principles and Concepts, Design Pattern (MVC, MVP, SOLID)
- Intellij IDEA, Postman, SoapUI, DBeaver, SQL Developer
- Git, Gitlab, Bitbucket and a bit of: SVN, Perforce
- JIRA, Rally, Confluence, Swagger, ClickUp

Additional information

- Location: Minsk, Belarus
- Timezone: GMT+3
- Likes: coding, swimming
- Not interested in projects related to betting, gambling, dating, casino, forex or other immoral activity

Companies / Projects (Java)

Bell Integrator, June 2023 – now (4 months)

- Position: Senior Software Engineer
- Customer: Sberbank - Russian bank
- Project: Development of microservices for backend of a bank
- Team Size (devs): 7

Environment:

- Java 15
- Spring (Boot, Rest, Data), Lombok, MapStruct, Docker, PostgreSQL, Liquibase
- JUnit, Mockito, Testcontainers
- Gradle, Jenkins
- Git, Bitbucket

- Intellij IDEA, DBeaver
- OpenAPI, Swagger

Tasks performed:

- Build speed-up & optimization
- Code refactoring
- Integration with external REST APIs

iTechArt, July 2022 – January 2023 (7 months)

- Position: Senior Software Engineer
- Customer: Altir - American startup (of Soundful product)
- Project: Migration of Python-based service to Java
- Team Size (devs): 1-3
- GitHub profile on a customer account: https://github.com/apunko-altir

Environment:

- Java 11, Python 3
- Spring (Boot, Rest, Data), Lombok, MapStruct, Docker, PostgreSQL, Liquibase
- JUnit, Mockito, Testcontainers, JMeter
- Gradle, Jenkins
- AWS S3
- Git, GitHub
- Intellij IDEA, PyCharm, Postman, DBeaver
- ClickUp, Swagger

Tasks performed:

- REST API design & implementation
- Migration of Python code to Java
- Implementation of hybrid tests for comparison results of run migrated Java code and Python code
- Documentation preparation, knowledge transferring, code review, preparation & showing demo
- Manage team of 3 people

Artezio, April 2021 — April 2022 (1 year)

- Position: Lead Software Engineer
- Customer: VTB - Russian bank
- Project: Development of ATM backend (7 services)
- Team Size (devs): 9 (half year), 3 (half of year)

Environment:

- Java 11, Lua
- Spring (Boot, Rest, Data), Lombok, MapStruct, OkHttp, Tarantool, Docker

- JUnit, Mockito, Wiremock, Testcontainers, JMeter, Sonar
- Gradle (composite build), TeamCity
- OpenShift, Grafana, Prometheus, Fluent Bit, Jaeger
- IntelliJ IDEA, Postman, Git, Bitbucket
- Jira, Confluence, Swagger

Tasks performed:

- REST API design & implementation
- OpenShift services configuration adjustment
- Setup of logging, monitoring, tracing, audit for services
- Documentation preparation, knowledge transferring, code review
- Participation in performance testing

Epam Systems, November 2019 — August 2020 (10 months)

- Position: Senior Software Engineer
- Customer: Epam Systems – Outsourcing company
- Project: Development of Blockchain-based app prototypes, based on Corda DLT for potential customers
- Team size (devs): 3

Environment:

- Java 8, Groovy, Go
- Spring (Core, Boot, Rest, Data), Lombok, MapStruct
- Corda, Hyperledger (Composer, Fabric)
- H2, PostgreSQL, LevelDB
- JUnit, Mockito, Spock, Gatling, k6
- Gradle, Jenkins (with DSL)
- Git, Gitlab
- IntelliJ IDEA
- Confluence, Swagger

Tasks performed:

- Design and implement REST API
- Functional/Performance tests implementation
- Demo preparation & demonstration
- Documentation preparation
- Passed Corda certification (private blockchain)
- Developed several Blockchain-based application prototypes

Epam Systems, April 2019 — October 2019 (7 months)

- Position: Senior Software Engineer

- Customer: QVC – German retailer / TV-shop
- Project: Support development effort for QVC company
- Team size (devs): 3

Environment:

- Java 6
- Jackson, iBatis, JiBX, Spring (Core, Rest)
- JUnit, Mockito
- Oracle Siebel CRM, IBM WebSphere
- Maven, Jenkins
- SVN
- Intellij IDEA
- JIRA

Tasks performed:

- Implemented integration with external Payment Authorization - API with security certificates support
- Implemented batch jobs with required business logic
- Documentation preparation

Epam Systems, November 2018 — February 2019 (4 months)

- Position: Senior Software Engineer
- Customer: Microsoft – DocFx team
- Project: Development of doclet for creation of Java docs using DocFx approach from Microsoft
- Team size (devs): 1
- GitHub repository on a customer account: https://github.com/docascode/docfx-doclet

Environment:

- Java 11
- Jackson
- JUnit, Mockito, Jacoco
- Maven
- Git, GitHub
- IntelliJ IDEA

Tasks performed:

- Design application architecture
- Implementation of doclet using modern approach introduced in Java 9

Epam Systems, June 2018 — November 2018 (5 months)

- Position: Senior Software Engineer
- Customer: Epic Games – Developer of games and tools

- Project: Play an owner role of one of microservices for Epic Games Social Platform
- Team size (devs): 10+

Environment:

- Java 8
- Spring, JPA, Hibernate, JAX-RS
- JUnit, Mockito, Gatling
- PostgreSQL, Redis
- AWS (EC2, Route53, Elastic, Aurora, CloudWatch)
- Git, GitHub, Perforce
- Gradle, TeamCity
- IntelliJ IDEA
- JIRA

Tasks performed:

- Made DB performance optimizations
- Design & implement Cursor API (client cursor as alternative to pagination)
- Migration VCS from Perforce to Git. Setup of CI for that (jobs, pipelines, notifications)

Epam Systems, June 2017 — February 2018 (8 months)

- Position: Senior Software Engineer
- Customer: IHG (Intercontinental Hotels Group) – Worldwide hotel network
- Project: Development of a loyalty system for IHG hotels network
- Team size (devs): 40+

Environment:

- Java 8, Groovy
- Spring (Core, Boot, Rest, Data, Security), Akka, JPA, Hibernate, GWT
- JUnit, Mockito, JMock, Spock
- Oracle, Liquibase, Flyway
- ActiveMQ, RabbitMQ
- Git, Bitbucket
- Maven, Gradle, Jenkins
- IntelliJ IDEA, SoapUI, SQL Developer, DBeaver
- Rally, Swagger, Stash

Tasks performed:

- Design and implement REST API
- Development of tool to perform members migration from an external system into an existing loyalty system with applying to them benefits, tier-level changes, etc. according to business rules
- Functional tests implementation

- Demo preparation & demonstration

Godel technologies, November 2016 — February 2017 (3 months)

- Position: Java Developer
- Customer: Extra Energy – British energy provider
- Project: Development statistics collector from smart electric counters for European energy supply provider
- Team Size (devs): 3

Environment:

- Java 8
- Spring (Boot, Data, Cloud, Integration)
- JUnit, Mockito
- JPA, PostgreSQL, Liquibase
- Maven, Jenkins
- Git, Bitbucket, Docker
- Intellij IDEA
- Jira, Confluence

Tasks performed:

- CI setup
- Involved in architecture design activities
- Participated in R&D activities

Epam Systems, April 2012 — November 2016 (4 years 7 months)

- Position: (Junior → Middle → Senior) Software Engineer
- Customer: IHG (Intercontinental Hotels Group) – Worldwide hotel network
- Project: Development of a loyalty system for hotel network
- Team Size (devs): 40+

Environment:

- Java 6/7
- Apache CXF, Spring, Apache Camel, Quartz, GWT
- JUnit, JMock
- Oracle, JPA, Hibernate
- Maven, Jenkins
- Git, Bitbucket
- JMS, ActiveMQ
- SoapUI, NetBeans / Eclipse / IntelliJ IDEA
- Rally

Tasks performed:

- Designed & developed set of Quartz jobs
- Adapt existing/Developed new UI components for 2 UI Apps (using GWT)
- Add support of second (Chinese) language to the existing UI with translation ability
- Developed tool for batch tokenization of 180 million credit cards
- Mentoring & support of new team members

Epam Systems, October 2011 — April 2012 (6 months)

- Position: Junior Software Engineer
- Customer: -
- Project: Studying in Java-laboratory
- Team Size (devs): 1

Environment:

- Java 6
- Spring, JPA, Hibernate, SQL, JavaScript, jQuery, JSF
- Oracle
- NetBeans, Tomcat

Tasks performed:

- Implemented 10 typical Java-laboratory tasks & bonus task - "Reversi" game

Companies / Projects (before Java)

BMC, February 2008 — August 2011 (3 years 6 months)

- Position: Electronics Engineer / Software Engineer / Embedded Software Engineer
- Customer: BMC - Belarussian intercollegiate center
- Project: Development of a device for diesel fuels testing (similar to British HFRR-LD)
- Team Size (engineers): 3

Environment:

- C18 (C for PIC18 MCUs), MPLAB
- Delphi 7
- Multisim, Ultiboard

Tasks performed:

- Design printed circuit boards and their assembly
- Development of microcontroller firmware
- Development of PC software
- Participate in certification testing and customer education

BSUIR, August 2003 - May 2011 (7 years 9 months)

- Position: Scientist
- Customer: BSUIR - university
- Project: Scientific research of processes in metals and semiconductors during energetic influence
- Team Size (scientists): 1-5

Environment:

- C, C18 (C for PIC18 MCUs), Object Pascal
- Numerical methods
- Visual Studio, Delphi, Comsol Femlab, MPLAB
- Multisim, Ultiboard

Tasks performed:

- Numerical modeling of mixture diffusion in solids
- Numerical modeling of hydrodynamic processes
- Developed and assembled several electronic devices & software for them:
  - Tribometers (different types)
  - Solar cells tester