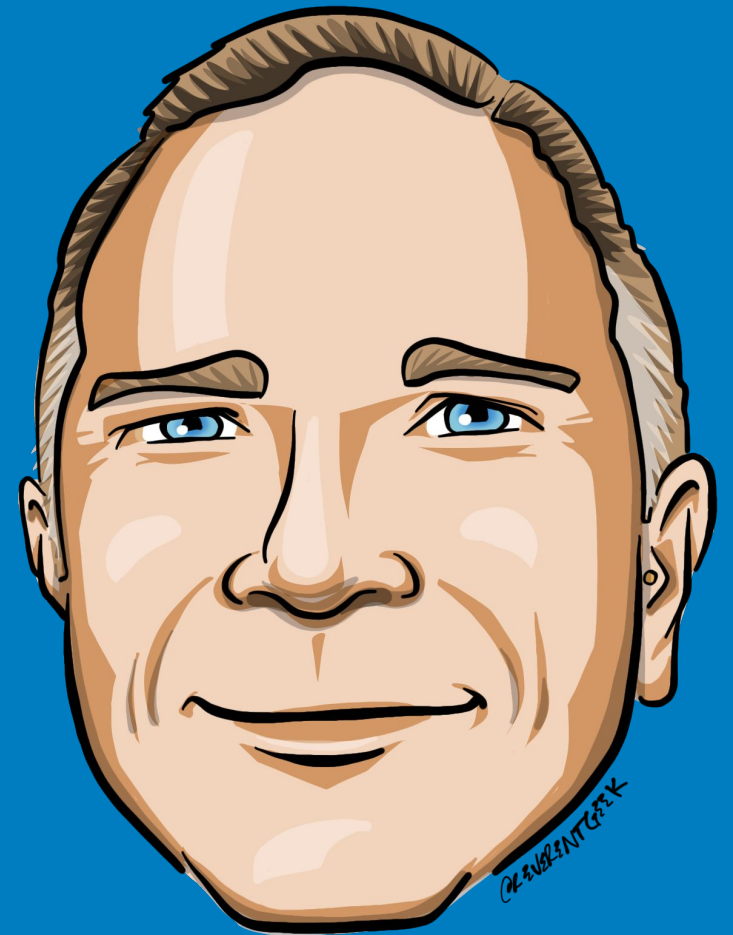
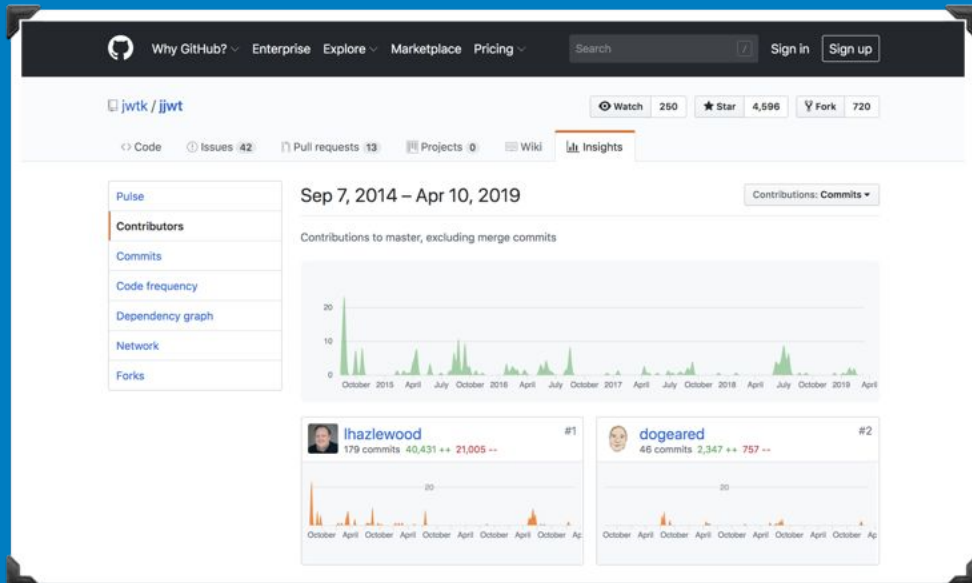


Vue.js & Spring Boot

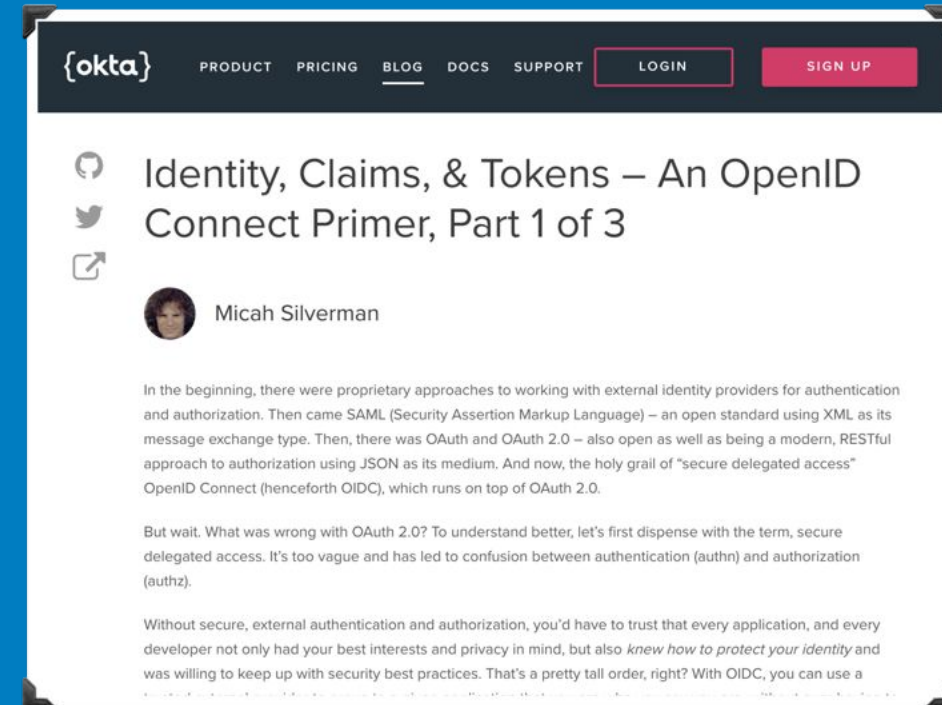
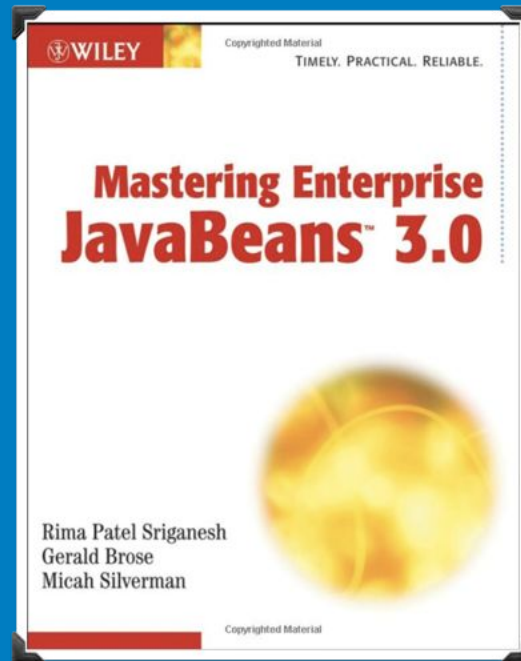
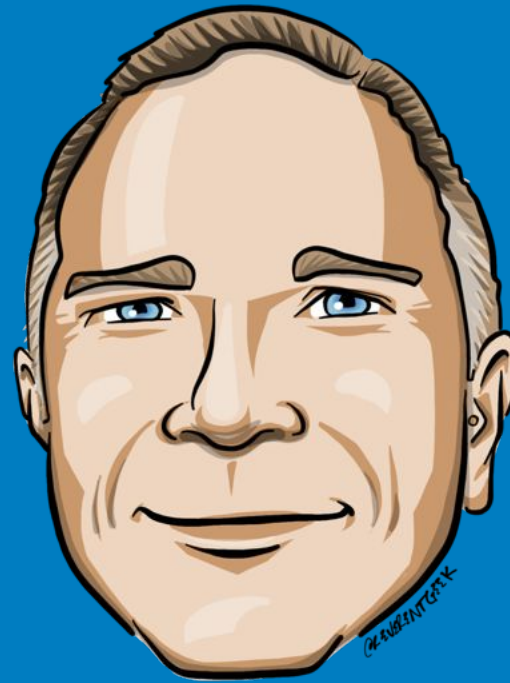
(Modern SPAs Made Easy)

MICAH SILVERMAN
Senior Security H@XOR
@afitnerd
@oktadev

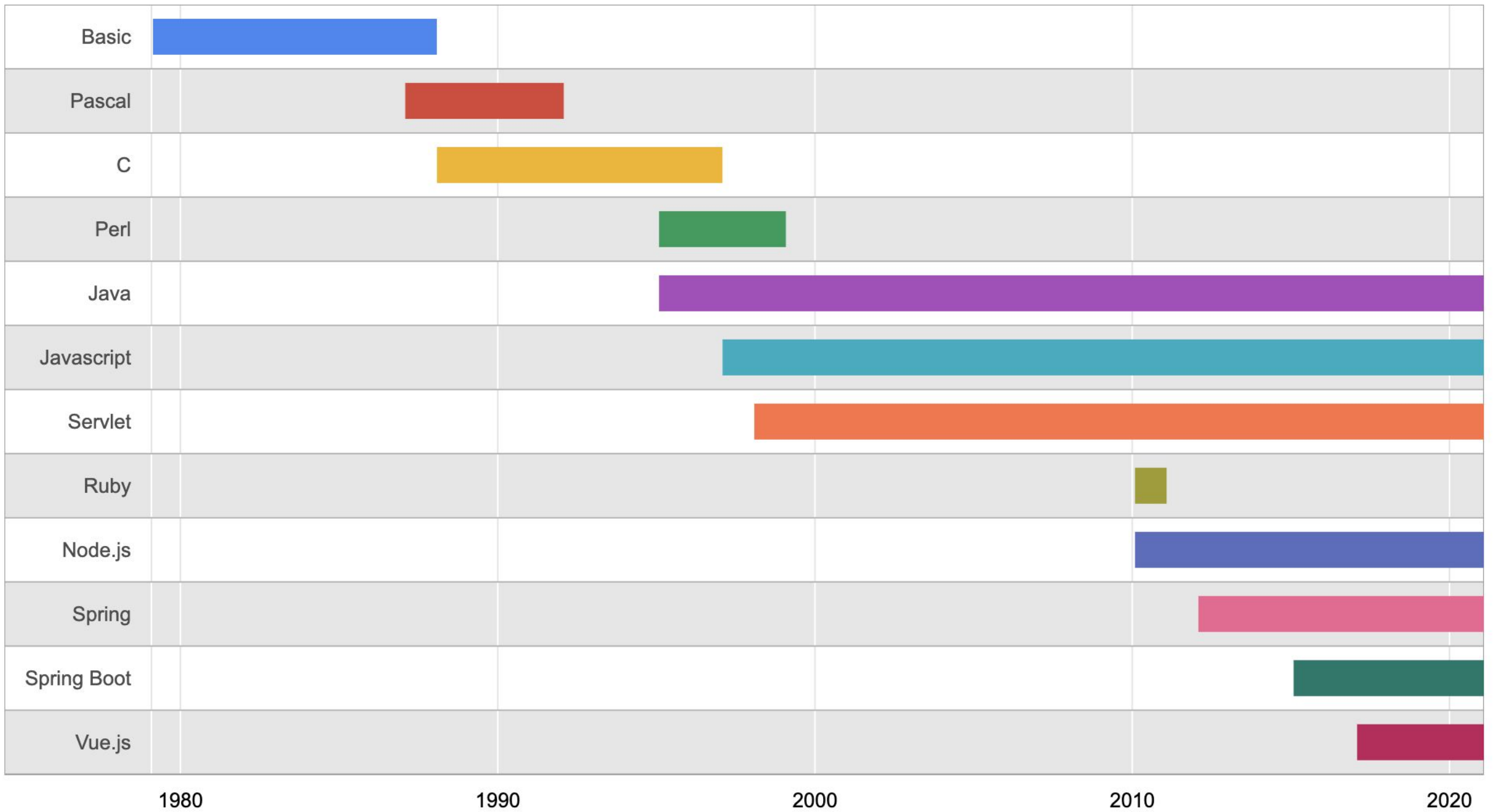




<https://github.com/jwt/jjwt>



<https://bit.ly/OIDCPrimer>

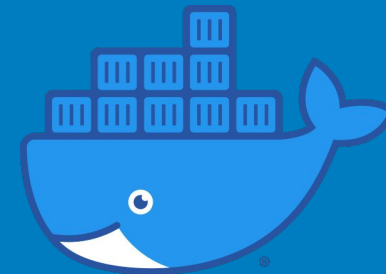
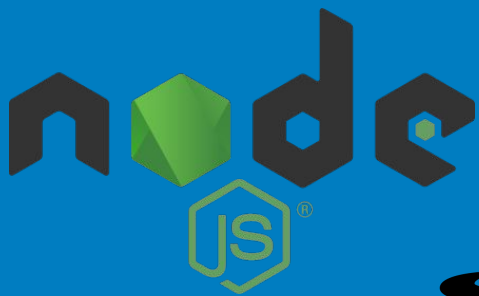


Agenda

- 05 min - Intro
- 05 min - Spring Boot: progress api
- 10 min - Vue.js: First pass
- 10 min - JHipster with Vue.js
- 05 min - JHipster: progress api
- 05 min - Components are better
- 05 min - Security upgrade
- 05 min - Conclusion and Q&A

Tech

- Node.js v12.16
- Java v1.8
- Spring Boot v2.2
- @vue/cli v4.2
- JHipster v6.7
- Docker v2.2
- Heroku CLI v7.38



Spring Boot in 5 Minutes



```
curl https://start.spring.io/starter.tgz \
  -d dependencies=web \
  -d baseDir=progress-api \
  -d groupId=com.afitnerd \
  -d artifactId=progress-api \
  -d name=progress-api \
  -d packageName=com.afitnerd.progress-api \
  -d type=maven-project \
  -d bootVersion-2.2.4.RELEASE \
  -o progress-api.tgz
```

Vue.js - First Pass



- `npm install -g @vue/cli`
- `npm install -g @vue/cli-service`
- Create project with TypeScript
- `npm install bootstrap-vue axios --save`

Vue.js - Make an API call



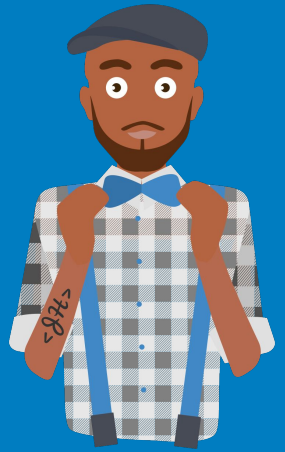
- axios uses Promises
- axios can call the Spring Boot backend
- need to deal with CORS

Vue.js - BootstrapVue



- Bootstrap - responsive web apps
- Easy to use layout system
- Many built-in components
- Great for backend dwellers

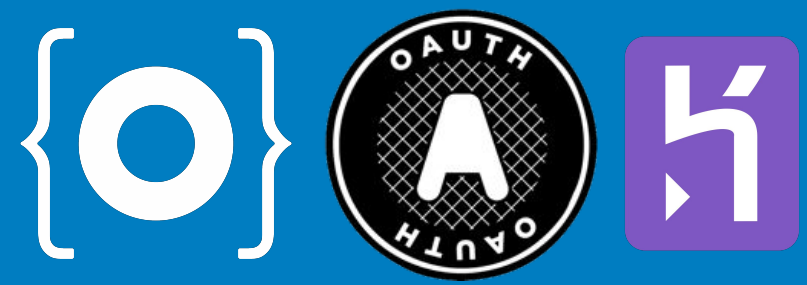
JHipster - Bring it all under one roof



“JHipster is a free and open-source application generator used to quickly develop modern web applications”

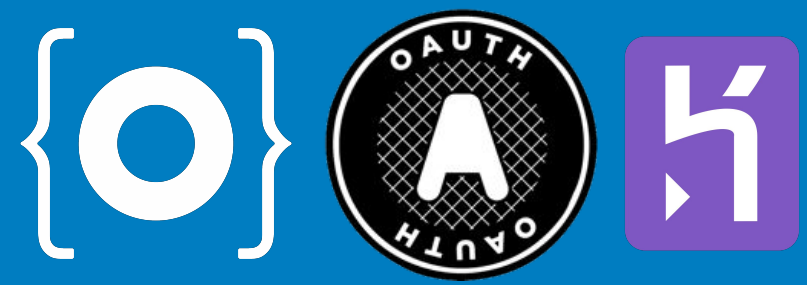
- `npm install -g generator-jhipster generator-jhipster-vue`
- Vue.js
- Spring Boot
- Maven
- OAuth 2.0

OAuth 2.0 with Okta



- Provision Okta Org
- Create OAuth 2.0 App
- Provisioning made easy with heroku
- Update application.yml

What's left to talk about



- Vuex - state management
- JPA - Java Persistence API
- JSR 107 - Cache
- Deployment - Have you tried Heroku?

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oauth.com
@oktadev

Free hosted authorization server:
developer.okta.com

