What would be relevant to learn working in Point72 Development?

* Many applications utilize object oriented programming languages. There are a lot of applications in ASP.NET using C# and also some in Java. So a strong and through understanding of OOJ principles and of either Java/C# would be useful.
* The company uses Atlassian tools JIRA, Bamboo, Bitbucket and Fisheye. So knowing about those would help.
* A basic understanding of the financial industry. Stocks, trades, compliance, laws governing hedge funds would be very useful. It is difficult to do development work on an application if you do not fundamentally understand it’s function or the problem that it is solving.
* Microservices architecture when creating an application. The company is moving in this direction.
* Big data and what it takes to manage big data solutions and the technologies associated with doing so.
* SQL server, specifically complex SQL server joins, cross joins, stored procedures etc. The company may be looking to move towards NoSQL but the fact remains that the entire DB system currently is in MS-SQL server.
* Learn JQL man.
* For the company’s future program, the Point72 Arc, it would be prudent to learn Node.js, ReactJS and MongoDB. In simple terms, knowing JavaScript well, not the fancy frameworks but just core JavaScript will serve well.
* Have an understanding of PaaS (Platform as a service), IaaS (infrastructure as a service), and Containerization.
* Know something about Apache Kafka, AWS
* Big Data and Functional Programming. More so Functional programming for general development since that is applicable everywhere and big data if you are looking to continue on in the financial industry. NoSQl is the new trend
* Machine learning algorithms.

Career Advice from Mohit C

* You do not want to be stuck coding when you are 45 years of age. Technology is an industry where everything is changing and languages and frameworks are becoming deprecated every three years. You do not want to only focus on becoming a great software developer because that will leave you stuck chasing technology and chasing frameworks/languages while they are changing faster than you can learn as you grow older.
* Instead, take this critical piece of advice. Focus on the domain. Focus on the industry that you are working in and know as much as humanly possible as you can. Pick an industry that you love, that you are passionate about and then use technology to solve the problems that the industry is facing. If you only focus on being a software developer and you know programming well, but you don’t really know any industry in detail then you aren’t going to be able to move upward in an organization. You’ll be stuck on the end of the chain only doing development and not being involved in the business process. You want to understand the business you are working in, and you want to understand the problems it is facing, and then you want to look at how technology can solve those problems. Pick a domain you really love and are passionate about, don’t’ just focus on the programming. If they ask you why do you want to work in X industry you need to be able to respond with a from the heart reason.
* Pick an industry you love independent of technology, then use technology to solve problems you are passionate about. Be a problem solving guy.
* Statistics is a good foundation to have regardless of where you end up.